



## Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV\_Test\_Plan\_3\_3\_Functional\_TDA2xx

Printed by TestLink on 06/04/2018

2017 (c) Testlink Community

## Table Of Contents

### 1.1.Network

#### 1.1.1.TCP/IP

VISIONSDK-100: NW\_Ctrl\_cmd\_echo  
VISIONSDK-101: NW\_Ctrl\_cmd\_sys\_reset  
VISIONSDK-102: NW\_Ctrl\_cmd\_qspi\_wr  
VISIONSDK-103: NW\_Ctrl\_cmd\_mem\_rd  
VISIONSDK-104: NW\_Ctrl\_cmd\_mem\_wr  
VISIONSDK-105: NW\_Ctrl\_cmd\_mem\_save  
VISIONSDK-106: NW\_Rx\_Display  
VISIONSDK-108: NW\_Rx\_Decode\_Display\_H264\_Frames  
VISIONSDK-109: SingleCam\_Capture\_NW\_Tx  
VISIONSDK-110: MultiCam\_Capture\_NW\_Tx  
VISIONSDK-111: SingleCam\_Capture\_Encode\_NW\_Tx

#### 1.1.2.TFDTP

VISIONSDK-234: NW\_Rx\_Display\_TFDTP  
VISIONSDK-236: NW\_Rx\_Decode\_Display\_H264\_Frames\_TFDTP  
VISIONSDK-237: SingleCam\_Capture\_NW\_Tx\_TFDTP  
VISIONSDK-238: MultiCam\_Capture\_NW\_Tx\_TFDTP  
VISIONSDK-239: SingleCam\_Capture\_Encode\_NW\_Tx\_TFDTP

### 1.2.SRV

#### 1.2.1.VIP\_SRV

##### 1.2.1.1.2D\_SRV

VISIONSDK-124: VIP\_2D\_SRV\_OV10635\_913deser  
VISIONSDK-146: VIP\_2D\_SRV\_OV10635\_913deser\_without\_TDAXX\_Folder  
VISIONSDK-190: VIP\_2D\_SRV\_Analytics\_Ultrasonic\_OV10635\_913deser  
VISIONSDK-191: VIP\_2CH\_2D\_SRV\_TIDA0455

##### 1.2.1.2.3D\_SRV

VISIONSDK-125: VIP\_3D\_SRV\_OV10635\_913deser  
VISIONSDK-147: VIP\_3D\_SRV\_OV10635\_913deser\_without\_TDA2X\_Folder  
VISIONSDK-164: VIP\_2MP\_3D\_SRV\_Imx290\_913deser

VISIONSDK-204: VIP\_3D\_SRV\_4CH\_SFM\_Perception\_Demo\_OV10635\_913deser

VISIONSDK-253: VIP\_3D\_SRV\_OV10635\_913deser\_MultipleTimes

### 1.2.2.AVB\_SRV

VISIONSDK-117: AVB\_4CH\_NW\_Capture\_SRV\_Disply

VISIONSDK-261: AVB\_4CH\_NW\_Capture\_SRV\_AVBTx

### 1.2.3.SRV\_Calibration

VISIONSDK-137: SRV\_Calibration\_UC\_auto\_calibration

VISIONSDK-138: SRV\_Calibration\_UC\_manual\_calibration

VISIONSDK-139: SRV\_Calibration\_UC\_default\_calibration

VISIONSDK-140: SRV\_Calibration\_UC\_auto\_calibration\_Dump\_Frame

VISIONSDK-141: SRV\_Calibration\_UC\_auto\_calibration\_update\_2D\_PERSMAT

VISIONSDK-142: SRV\_Calibration\_UC\_auto\_calibration\_without\_MMC\_SD

VISIONSDK-143: SRV\_Calibration\_UC\_auto\_calibration\_without\_TDAXX\_Folder

### 1.2.4.Adaptive\_Bowl

VISIONSDK-251: VIP\_3D\_SRV\_OV10635\_913deser\_Change\_Bowl\_position

VISIONSDK-252: VIP\_2MP\_3D\_SRV\_Imx290\_913deser\_change\_Bowl\_Position

### 1.2.5.FastBoot\_SRV

VISIONSDK-256: FastBoot\_VIP\_3D\_SRV\_OV10635\_913deser

## 1.3.Mono\_Cam

### 1.3.1.VIP

#### 1.3.1.1.VIP\_SingleCam\_Capture\_Display

VISIONSDK-1: VIP\_Capture\_Display\_Input\_OV10635\_Output\_7inch\_LCD

VISIONSDK-2: VIP\_Capture\_Display\_Input\_OV10635\_Output\_HDMI\_720P

VISIONSDK-5: VIP\_Capture\_Display\_Input\_OV10635\_Output\_HDMI\_1080P

VISIONSDK-112: VIP\_Capture\_Display\_Input\_OV10635\_Output\_10inch\_LCD

VISIONSDK-113: VIP\_Capture\_Display\_Input\_OV10635\_Output\_10inch OSD\_LCD

VISIONSDK-195: VIP\_Capture\_SGX\_Copy\_Display\_Input\_OV10635\_Output\_HDMI\_1080P

VISIONSDK-296: VIP\_Capture\_Display\_without\_Sensor

VISIONSDK-312: VIP\_Capture\_SGX\_Copy\_Display\_Input\_OV10635\_Output\_10inch\_LCD

#### 1.3.1.2.VIP\_Capture\_FrameCopy\_Display

VISIONSDK-6: VIP\_Capture\_FrameCopy\_A15\_Display

VISIONSDK-7: VIP\_Capture\_FrameCopy\_DSP1\_Display

VISIONSDK-8: VIP\_Capture\_FrameCopy\_EVE1\_Display

VISIONSDK-196: VIP\_Capture\_FrameCopy\_A15\_SGX\_Copy\_Display

VISIONSDK-197: VIP\_Capture\_FrameCopy\_EVE1\_SGX\_Copy\_Display

VISIONSDK-202: VIP\_Capture\_FrameCopy\_A15\_Connector\_Links\_A15\_SGX\_Copy\_Display

#### **1.3.1.3.VIP\_Capture\_SubFrameCopy\_Display**

VISIONSDK-168: VIP\_Capture\_SubFrameCopy\_EVE1\_Display

#### **1.3.1.4.VIP\_Capture\_IPC\_Display**

VISIONSDK-230: VIP\_Capture\_IPC\_Display\_Single\_core

VISIONSDK-231: VIP\_Capture\_IPC\_Display\_Multi\_core

#### **1.3.1.5.VIP\_Capture\_Color\_To\_Gray\_Display**

VISIONSDK-167: VIP\_Capture\_Color\_To\_Gray\_Display

#### **1.3.1.6.VIP\_Capture\_DSSWB\_Display**

VISIONSDK-178: VIP\_Capture\_DSSWB\_Display

#### **1.3.1.7.VIP\_Capture\_VPE\_Display**

VISIONSDK-189: VIP\_Capture\_VPE\_Display

#### **1.3.1.8.VIP\_SingleCam\_Capture\_Analytics\_Display**

VISIONSDK-9: VIP\_Capture\_Edge\_detect\_Display

VISIONSDK-10: VIP\_Capture\_DOF\_1Pyramid\_Display

VISIONSDK-11: VIP\_Capture\_DOF\_2Pyramid\_Display

#### **1.3.1.9.VIP\_Capture\_Encode\_Decode\_Display**

VISIONSDK-12: VIP\_Capture\_Encode\_Decode\_MJPEG\_Display

VISIONSDK-13: VIP\_Capture\_Encode\_Decode\_H264\_Display

VISIONSDK-199: VIP\_Capture\_Encode\_Decode\_MJPEG\_SGX\_Copy\_Display

VISIONSDK-198: VIP\_Capture\_Encode\_Decode\_H264\_SGX\_Copy\_Display

#### **1.3.1.10.VIP\_Capture\_Dual\_Display**

VISIONSDK-281: VIP\_Capture\_Dual\_Display\_Input\_OV10635\_Output\_7inch\_LCD\_HDMI

VISIONSDK-282: VIP\_Capture\_Dual\_Display\_Input\_OV10635\_Output\_10inch\_LCD\_HDMI

#### **1.3.1.11.VIP\_Capture\_Display\_DUAL\_A15\_SMP\_BIOS**

VISIONSDK-285: VIP\_Capture\_Display\_Input\_OV10635\_Output\_HDMI\_1080P

#### **1.3.1.12.VIP\_Capture\_Safe\_FrameCopy\_Display**

VISIONSDK-290: VIP\_Capture\_Safe\_FrameCopy\_A15\_Display

### **1.3.2.HDMI**

#### **1.3.2.1.HDMI\_Capture\_Display**

VISIONSDK-3: HDMI\_Capture\_Display\_Input\_HDMI\_Output\_LCD

VISIONSDK-4: HDMI\_Capture\_Display\_Input\_HDMI\_Output\_HDMI

#### **1.3.2.2.HDMI\_Capture\_Analytics\_Display**

VISIONSDK-14: HDMI\_Capture\_SOF\_Display

VISIONSDK-15: HDMI\_Capture\_LD\_Display

VISIONSDK-16: HDMI\_Capture\_TLR\_Display

VISIONSDK-17: HDMI\_Capture\_PD\_Display

VISIONSDK-18: HDMI\_Capture\_TSR\_Display

VISIONSDK-19: HDMI\_Capture\_VD\_Display

VISIONSDK-20: HDMI\_Capture\_PD\_TSR\_VD\_Display

VISIONSDK-21: HDMI\_Capture\_FrontCam\_Analytics\_Display

### **1.3.3.TIDL**

#### **1.3.3.1.SemSeg**

VISIONSDK-295: Semantic\_Segmentation

#### **1.3.3.2.TIDL\_FILE\_IO**

VISIONSDK-158: TIDL\_File\_IO\_UC\_DSP\_Performance

VISIONSDK-159: TIDL\_File\_IO\_UC\_DSP\_Dump\_Frames\_File

VISIONSDK-160: TIDL\_File\_IO\_UC\_DSP\_Free\_Run

VISIONSDK-161: TIDL\_File\_IO\_UC\_EVE\_Performance

VISIONSDK-162: TIDL\_File\_IO\_UC\_EVE\_Dump\_Frames\_File

VISIONSDK-163: TIDL\_File\_IO\_UC\_EVE\_Free\_Run

#### **1.3.3.3.TIDL\_OD**

VISIONSDK-333: TIDL\_Object\_Detection

### **1.3.4.MISC**

#### **1.3.4.1.NullSrc\_Null\_Link**

VISIONSDK-181: NullSrc\_Null\_UC

VISIONSDK-182: NullSrc\_Decode\_Display\_MJPEG\_Frames

VISIONSDK-183: NullSrc\_Decode\_Display\_H264\_Frames

VISIONSDK-184: NullSrc\_Display\_UC\_DataFormat\_YUV420SP

VISIONSDK-185: NullSrc\_Display\_UC\_DataFormat\_YUV422I

VISIONSDK-201: NullSrc\_Decode\_Display\_MJPEG\_Frames\_L

VISIONSDK-200: NullSrc\_Decode\_Display\_H264\_Frames\_L

#### **1.3.4.2.SyncLink**

VISIONSDK-187: VIP\_Capture\_Sync\_Null

#### **1.3.4.3.DupLink**

VISIONSDK-165: VIP\_Capture\_Dup\_Display

#### **1.3.4.4.MergeLink**

VISIONSDK-166: VIP\_Capture\_Merge\_Display

#### **1.3.4.5.StatisticsLogs**

VISIONSDK-211: VIP\_SingleCam\_Capture\_Display\_Statistics\_Logs

VISIONSDK-212: Print\_PRCM\_Statistics\_Dpll\_Status

VISIONSDK-213: Print\_PRCM\_Statistics\_Temperature

VISIONSDK-214: Print\_PRCM\_Statistics\_Voltage

VISIONSDK-215: Print\_PRCM\_Statistics\_Module\_Power\_State

VISIONSDK-216: Print\_PRCM\_Statistics\_CPU\_Frequency

VISIONSDK-217: Print\_PRCM\_Statistics\_Peripherals\_Frequency

VISIONSDK-218: Print\_PRCM\_Statistics\_Prcm\_Register\_Data

VISIONSDK-219: Print\_PRCM\_Statistics\_Power\_Consumption

VISIONSDK-220: Print\_PRCM\_Statistics\_All\_PRCM\_Stats

#### **1.3.4.6.FATFS**

VISIONSDK-228: File\_IO\_UC\_MMCSd\_IPU1\_0

#### **1.3.4.7.Limp\_Home\_Mode**

VISIONSDK-277: Limp\_Home\_Mode

#### **1.3.4.8.Task\_time\_measure\_utility**

VISIONSDK-289: VIP\_Capture\_Display\_task\_time\_measure\_utility

#### **1.3.4.9.Stereo\_UC**

VISIONSDK-303: 2CH\_LVDS\_Capture\_VPE\_Stereo\_Display

VISIONSDK-304: 2CH\_LVDS\_Capture\_Stereo\_Auto\_Calibration

VISIONSDK-305: 2CH\_LVDS\_Capture\_Stereo\_Manual\_Calibration

VISIONSDK-306: Network\_Stereo\_Display

#### **1.3.4.10.TLFW\_verify**

VISIONSDK-309: TLFW\_verification

VISIONSDK-325: VSDK\_restructuring\_directory\_structure

### **1.3.5.ECC\_FFI**

VISIONSDK-121: Capture\_FrameCopy\_FFI\_DSP1\_Display

### **1.3.6.IPC\_LIB**

VISIONSDK-123: IPC\_LIB

VISIONSDK-240: Low\_Latency\_IPC

### **1.3.7.Robust\_RVC**

VISIONSDK-327: RVC\_Capture\_Display\_VIDDEC\_TVP5158\_10inch\_LCD

## **1.4.Open\_Compute**

### **1.4.1.OpenCV**

VISIONSDK-96: VIP\_Capture\_OpenCV\_Canny\_Display

VISIONSDK-97: VIP\_Capture\_OpenCV\_OpenCL\_Dilation\_Display

VISIONSDK-205: VIP\_Capture\_OpenCV\_Canny\_SGX\_Copy\_Display

VISIONSDK-206: VIP\_Capture\_OpenCV\_OpenCL\_Dilation\_SGX\_Copy\_Display

#### **1.4.2.OpenCL**

VISIONSDK-98: VIP\_Capture\_OpenCL\_Canny\_Display

VISIONSDK-99: VIP\_Capture\_OpenCL\_FrameCopy\_Display

VISIONSDK-207: VIP\_Capture\_OpenCL\_Canny\_SGX\_Copy\_Display

VISIONSDK-208: VIP\_Capture\_OpenCL\_Copy\_SGX\_Copy\_Display

#### **1.4.3.OpenVX**

VISIONSDK-223: OpenVX\_Confirmation\_Test

VISIONSDK-224: OpenVX\_Tutorials

VISIONSDK-225: VIP\_Capture\_OpenVX\_Display\_Input\_OV10635\_Output\_HDMI\_1080P

### **1.5.Multi\_Cam**

#### **1.5.1.Multi\_Channel\_LVDS\_Capture\_Display**

VISIONSDK-22: VIP\_4CH\_Capture\_Display\_OV10635\_913deser

VISIONSDK-23: VIP\_6CH\_Capture\_Display\_OV10635\_913deser

VISIONSDK-203: VIP\_4CH\_Capture\_SGX\_Mosaic\_Display\_OV10635\_913deser

#### **1.5.2.AVB\_4CH\_Capture\_Mosaic\_Display\_AVBTx**

VISIONSDK-116: AVB\_4CH\_NW\_Capture\_Mosaic\_Display\_AVBTx

VISIONSDK-258: AVB\_4CH\_NW\_Capture\_Mosaic\_AVBTx

#### **1.5.3.SelectLink**

VISIONSDK-186: VIP\_4CH\_Capture\_Select\_Display

#### **1.5.4.VIP\_4CH\_Capture\_Color\_To\_Gray\_Display**

VISIONSDK-188: VIP\_4CH\_Capture\_Color\_To\_Gray\_Display

#### **1.5.5.VIP\_4CH\_Capture\_VPE\_Sync\_DMA\_SWMS\_Display**

VISIONSDK-192: VIP\_4CH\_Capture\_VPE\_Sync\_DMA\_SWMS\_Display

### **1.6.Sample\_App**

VISIONSDK-221: NullSrc\_Display\_UC

VISIONSDK-222: NullSrc\_Display\_UC\_L

### **1.7.Radar**

VISIONSDK-154: NullSrc\_Capture\_Radar\_FFT\_EVE1\_Null\_Read\_Frames\_SDcard

VISIONSDK-155: NullSrc\_Capture\_Radar\_FFT\_EVE1\_Null\_Write\_Frames\_SDcard

VISIONSDK-156: NullSrc\_Capture\_Radar\_FFT\_EVE1\_Null\_Read\_Frames\_NW

VISIONSDK-157: NullSrc\_Capture\_Radar\_FFT\_EVE1\_Null\_Write\_Frames\_NW

## **1.8.Build**

### **1.8.1.VSDK\_Builds**

VISIONSDK-241: VSDK\_default\_build

VISIONSDK-249: VSDK\_BIOS\_different\_builds

VISIONSDK-250: VSDK\_Linux\_different\_builds

VISIONSDK-278: VSDK\_KW\_build

### **1.8.2.Radar\_Builds**

VISIONSDK-242: Radar\_default\_build

VISIONSDK-280: Radar\_different\_builds

## **1.9.Release\_Process**

VISIONSDK-245: VSDK\_Radar\_release\_check\_list

VISIONSDK-246: VSDK\_package\_creation\_and\_installation

VISIONSDK-247: Radar\_package\_creation\_and\_installation

## **1.10.Boot\_Modes**

### **1.10.1.Secure\_Boot**

VISIONSDK-229: VIP\_Capture\_Display\_UC\_HS\_Sample

### **1.10.2.SD\_Boot**

VISIONSDK-273: Load\_BIOS\_Binaries\_using\_SD\_Card

VISIONSDK-283: Load\_Linux\_Binaries\_using\_SD\_Card

### **1.10.3.QSPI\_Boot**

VISIONSDK-274: Load\_Binaries\_using\_QSPI

### **1.10.4.NOR\_Boot**

VISIONSDK-276: Load\_Binaries\_using\_NOR

### **1.10.5.NFS\_Boot**

VISIONSDK-284: Load\_Linux\_Binaries\_from\_NFS

### **1.10.6.CCS\_Boot**

VISIONSDK-332: Load\_Binaries\_using\_CCS



## Test Project: VISIONSDK

---

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

## Test Plan: PSDKV\_Test\_Plan\_3\_3\_Functional\_TDA2xx

---

TDA2xx Functional Test Plan

Will cover all functional test for tda2xx-evm

## 1.1.Test Suite : Network

---

### 1.1.1.Test Suite : TCP/IP

Test Case VISIONSDK-100: NW_Ctrl_cmd_echo			
<u>Summary:</u>			
Network Control Command "echo"			
<u>Preconditions:</u>			
verify that host and target can communicate and execute command accordingly			
Boot with SD card			
Make network cable connected			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "echo" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_nw		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-101: NW_Ctrl_cmd_sys_reset</b>			
<u>Summary:</u> Network Control Command "sys_reset"			
<u>Preconditions:</u> verify that host and target can communicate and execute command accordingly Boot with SD card Make network cable connected			
#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "sys_reset" command using network_ctrl.exe	EVM should not hang, and network command should work according to command on target side	

	#network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>		
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-102: NW\_Ctrl\_cmd\_qspi\_wr**Summary:

Network Control Command "qspi\_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "qspi_wr" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-103: NW\_Ctrl\_cmd\_mem\_rd**Summary:

Network Control Command "mem\_rd"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "mem_rd" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

#### Test Case VISIONSDK-104: NW\_Ctrl\_cmd\_mem\_wr

Summary:

Network Control Command "mem\_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "mem_wr" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		

<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-105: NW\_Ctrl\_cmd\_mem\_save**Summary:

Network Control Command "mem\_save"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "mem_save" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-106: NW\_Rx\_Display**Summary:

Network Rx Display UC

Input : RAW frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port	EVM should not hang, and network command should work according to command on target side	

	<server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	
<u>Execution type:</u>	Manual	
<u>Estimated exec. duration (sec):</u>		
<u>Priority:</u>	Medium	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw	
<b>Execution Details</b>		
Build	REL_3_3	
Tester	x0246581	
<u>Execution Result:</u>	<b>Passed</b>	
<u>Execution Mode:</u>	<b>Manual</b>	
<u>Execution duration (sec):</u>		

**Test Case VISIONSDK-108: NW\_Rx\_Decode\_Display\_H264\_Frames**Summary:

Network Rx Decode Display UC

Input : H264Encoded frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Decode + Display (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Send H264 Encode frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-109: SingleCam\_Capture\_NW\_Tx**Summary:

1 Channel capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-110: MultiCam\_Capture\_NW\_Tx**Summary:

4 Channel VIP capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		



<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-111: SingleCam\_Capture\_Encode\_NW\_Tx**Summary:

1 Channel capture + Encode + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Encode + Network TX (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords:  
tda2xx-evm  
tda2ex-evm  
tda3xx-evm  
tda2ex-entry  
tda2px-evm

<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

## 1.1.2.Test Suite : TFDTP

<b>Test Case VISIONSDK-234: NW_Rx_Display_TFDTP</b>			
<u>Summary:</u>			
Network Rx Display UC using TFDTP			
Input : RAW frames			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Binaries should be built with NSP_TFDTP_INCLUDE=yes			
verify that host and target can communicate and execute command accordingly			
Boot with SD card			
Make network cable connected			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-236: NW_Rx_Declare_Display_H264_Frames_TFDTP</b>			
<u>Summary:</u>			
Network Rx Decode Display UC using TFDTP			
Input : H264Encoded frames			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Binaries should be built with NSP_TFDTP_INCLUDE=yes			
verify that host and target can communicate and execute command accordingly			

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Decode + Display (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Send H264 Encode frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-237: SingleCam\_Capture\_NW\_Tx\_TFDTP**Summary:

Single Channel capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP\_TFDTP\_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm		

	tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-238: MultiCam\_Capture\_NW\_Tx\_TFDTP**Summary:

4 Channel VIP capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP\_TFDTP\_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda2xx-evm  
tda2ex-evm  
tda3xx-evm  
tda2ex-entry  
tda2px-evm

<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-239: SingleCam\_Capture\_Encode\_NW\_Tx\_TFDTP**Summary:

Single Channel capture + Encode + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP\_TFDTP\_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Encode + Network TX (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.2.Test Suite : SRV

---

## 1.2.1.Test Suite : VIP\_SRV

### 1.2.1.1.Test Suite : 2D\_SRV

#### Test Case VISIONSDK-124: VIP\_2D\_SRV\_OV10635\_913deser

##### Summary:

VIP 2D SRV UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex) , HDMI XGA TDM mode (TDA3x ONLY)

##### Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS\_2D.BIN

Run SRV calibration to generate PERSMAT.BIN if required

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS\_2D.BIN

Run SRV calibration to generate LUT.BIN if required

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be OV10635  & Display device as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "4CH VIP Capture + Surround View (DSP) + Display (HDMI)" UC	Display must come up and no buffer drops should be observed	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Keywords:  
tda2xx-evm  
tda2ex-evm  
tda3xx-evm  
tda2ex-entry  
tda2px-evm  
c\_regression  
c\_qualification  
m\_capture  
m\_display

#### **Execution Details**

Build: REL\_3\_3

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Automated**

Execution duration (sec):

Execution notes: TestLogPath

&gt;&gt;

**Test Case VISIONSDK-146: VIP\_2D\_SRV\_OV10635\_913deser\_without\_TDAXX\_Folder**Summary:

VIP 2D SRV UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source shuld be OV10635  & Display device as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "4CH VIP Capture + Surround View (DSP) + Display (HDMI)" UC	Display must come up and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-190: VIP\_2D\_SRV\_Analytics\_Ultrasonic\_OV10635\_913deser**Summary:

VIP 2D SRV + Analytics + Ultrasonic UC supported on TDA2x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Ensure build binaries with "ULTRASONIC\_INCLUDE=yes"

Ensure TDA2x folder present in SD card with CHARTPOS.BIN &amp; LENS\_2D.BIN



Run SRV calibration to generate PERMAT.BIN if required

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run "5CH VIP Capture + Surround View (DSPx) + Analytics (DSP/EVE) + Ultrasound (DSPx) + HDMI Display (HDMI) (TDA2x ONLY)" UC	Four views should come up in Mosaic  and also stitched output of the four views should be shown  Along with this a mosaic of Edge Detection  and fifth camera view should also come up  Also graphics rendering must be seen	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

#### Test Case VISIONSDK-191: VIP\_2CH\_2D\_SRV\_TIDA0455

##### Summary:

VIP 2CH 2D SRV UC supported on TDA2x

Input : TIDA0455

Output : HDMI 1080P

##### Preconditions:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS\_2D.BIN

Run SRV calibration to generate PERMAT.BIN if required

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as & Display Output as HDMI 1080P	Capture Source should be & Display device as HDMI 1080P	
2	Run "2CH VIP Capture (2560x720) + Surround View (DSPx) + Display (TDA2x + TIDA0455 only)" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.2.1.2.Test Suite : 3D\_SRV

<b>Test Case VISIONSDK-125: VIP_3D_SRV_OV10635_913deser</b>			
<u>Summary:</u>			
VIP 3D SRV UC supported on TDA2x/TDA2Ex/TDA2Px			
Input : OV10635 with 913/914 deserializer			
or OV10640 with 913/914 deserializer (apply IMI kernel patch)			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN			
Run SRV calibration UC if required to generate GPULUT.BIN			
Verify whether display shows a smooth stitching of all 4 cameras.			
All running at 30fps, Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression c_stress c_qualification c_stability m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-147: VIP_3D_SRV_OV10635_913deser_without_TDA2X_Folder</b>
<u>Summary:</u>

VIP 3D SRV UC supported on TDA2x/TDA2Ex

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA2x folder not present in SD card

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	It throws error	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-164: VIP\_2MP\_3D\_SRV\_Imx290\_913deser**

Summary:

VIP 2MP 3D SRV UC supported on TDA2x/TDA2Ex

Input : Imx290 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate GPULUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 21fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS 2MP capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm c_regression c_stress c_qualification		

	c_stability m_capture m_display
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-204: VIP\_3D\_SRV\_4CH\_SFM\_Perception\_Demo\_OV10635\_913deser**Summary:

VIP 3D SRV + 4Ch SFM (3D Perception Demo) UC supported on TDA2x/TDA2Ex

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate GPULUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV + 4CH Sfm (3D perception demo - EVE1-4/DSP1&2) + DISPLAY - Only on TDA2xx with HDMI 1080p display" UC	Display must come up and no buffer drops should be observe	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda2xx-evm

**Execution Details**

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

**Test Case VISIONSDK-253: VIP\_3D\_SRV\_OV10635\_913deser\_MultipleTimes**Summary:

VIP 3D SRV UC supported on TDA2x/TDA2Ex

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate GPULUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	Stop UC	Should stop the UC & display MAin menu	
4	Stop the application (apps.out) & rerun application	should be able to rerun application	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Failed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			
Execution notes	ADASVISION-1836: [TDA2Px] Running Back to Back 2MP 3D SRV UC failed  Applicable for all sgx based SRV (TDA2x/TDA2Ex)		

## 1.2.2.Test Suite : AVB\_SRV

<b>Test Case VISIONSDK-117: AVB_4CH_NW_Capture_SRV_Disply</b>			
<u>Summary:</u>			
Supported on TDA2x/TDA2Ex/TDA2Ex Entry/TDA2Px both Bios & Linux			
4CH AVB Capture + Surround View (DSPx) + AVB_TX/Display (TDA2x & TDA2Ex ONLY) UC			
Input: Through network (using avbtalker)			
Output: HDMI1080P			
<u>Preconditions:</u>			
Ensure Build happened with NDK_PROC_TO_USE=ipu1_1			
Ensure Host PC & target is connected through network cable			
Run AVB talker in host PC & send MPEG encoded frames to target			
Verify that AVB Receives frames from network,decoder is able to decode the MJPEG frame and Display			
Verify that 4ch AVB Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps on LCD/HDMI			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM should boot up	
2	Select UC	UC should be selected	
3	Select HDMI Display	HDMI display should be selected	
4	Run avb talker on PC side	Using Talker sent files from PC to target Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]"	
5	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-261: AVB_4CH_NW_Capture_SRV_AVBTx</b>			
<u>Summary:</u>			
Supported on TDA2x/TDA2Ex/TDA2Ex Entry			

4CH AVB Capture + Surround View (DSPx) + AVB\_TX/Display (TDA2x & TDA2Ex ONLY) UC

Input: Through network (using avbtalker)

Output: PC

Preconditions:

Ensure Build happened with NDK\_PROC\_TO\_USE=ipu1\_1

Ensure Host PC & target is connected through network cable

Run AVB talker in host PC & send MPEG encoded frames to target

Verify that AVB Receives frames from network, decoder is able to decode the MJPEG frame and Display

Verify that 4ch AVB Capture is running on IPU1-0 at 30fps

and no display

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot up	
2	Select UC	UC should be selected	
3	Select AVB TX only	option should be selected & no display	
4	Run avb talker & listener on PC side	Using Talker sent files from PC to target Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]" Using listener dump frame to PC Run "sudo ./avbtp_listener.sh recv.h264"	
5	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_iva		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.2.3.Test Suite : SRV\_Calibration

### Test Case VISIONSDK-137: SRV\_Calibration\_UC\_auto\_calibration

#### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

#### Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN,LENS\_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  8 Red color rectangle boxes (2 in each quadrant) should be visible  and no buffer drops should be observed	
3	Select Auto Calibration	On selecting Auto calibration  It will detect corners for all 4 cameras & generate	



		PERSMAT.BIN (in case of TDA2x/TDA2ex)	
		LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_qualification		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-138: SRV\_Calibration\_UC\_manual\_calibration**Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN,LENS\_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	

		depending upon the hardware connected	
		& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	
3	Select Manual Calibration & generate CALMAT	should be able to generate CALMAT.BIN	
4	Remove the card & refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide  to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	Should be able to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	
5	Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)  to MMC/SD card & insert into EVM  & Run any SRV UC	SRV output should be proper	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build		REL_3_3	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-139: SRV\_Calibration\_UC\_default\_calibration**Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN,LENS\_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observed	
3	Select Default Calibration	On selecting Default calibration  It will generate  PERSMAT.BIN (in case of TDA2x/TDA2ex)  LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-140: SRV\_Calibration\_UC\_auto\_calibration\_Dump\_Frame

##### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN,LENS\_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	
3	Select Auto Calibration	On selecting Auto calibration  It will detect corners for all 4 cameras & generate  PERSMAT.BIN (in case of TDA2x/TDA2ex)  LUT.BIN (in case of TDA3x)	
4	Select "d" to Save Display Frame to MMC/SD card	On selecting "d"  Display Frame should be saved to MMC/SD card	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		

<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-141: SRV\_Calibration\_UC\_auto\_calibration\_update\_2D\_PERSMAT**Summary:

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN,LENS\_2D.BIN & LENS.BIN

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	
3	Select Auto Calibration	On selecting Auto calibration  It will detect corners for all 4 cameras & generate  PERSMAT.BIN (in case of TDA2x/TDA2ex)  LUT.BIN (in case of TDA3x)	
4	Select "7" to Update 2D Pers Mat (after auto/manual calibration if required)	On selecting "7"  2D Pers Mat should be updated	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-142: SRV\_Calibration\_UC\_auto\_calibration\_without MMC\_SD

##### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

##### Preconditions:

Boot from QSPI

No MMC/SD card present

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	It throws error	

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_3

Tester	x0246581
Execution Result:	<b>Passed</b>
Execution Mode:	<b>Manual</b>
Execution duration (sec):	

### Test Case VISIONSDK-143: SRV\_Calibration\_UC\_auto\_calibration\_without\_TDAXX\_Folder

#### Summary:

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

Output : HDMI 1080P (TDA2x/TDA2Ex/TDA3x) , HDMI XGA TDM mode (TDA3x ONLY)

#### Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	It throws error	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			

Build	REL_3_3
Tester	x0246581
Execution Result:	<b>Passed</b>
Execution Mode:	<b>Manual</b>
Execution duration (sec):	



## 1.2.4.Test Suite : Adaptive\_Bowl

Test Case VISIONSDK-251: VIP_3D_SRV_OV10635_913deser_Change_Bowl_position			
<u>Summary:</u> VIP 3D SRV UC supported on TDA2x/TDA2Ex Input : OV10635 with 913/914 deserializer Output : HDMI 1080P			
<u>Preconditions:</u> Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN Run SRV calibration UC if required to generate GPULUT.BIN Verify whether display shows a smooth stitching of all 4 cameras. All running at 30fps, Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	Chnage Bowl postion	User should be able to change Bowl position	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-252: VIP_2MP_3D_SRV_Imx290_913deser_change_Bowl_Position</b>			
<u>Summary:</u> VIP 2MP 3D SRV UC supported on TDA2x/TDA2Ex Input : Imx290 with 913/914 deserializer Output : HDMI 1080P			
<u>Preconditions:</u> Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN Run SRV calibration UC if required to generate GPULUT.BIN Verify whether display shows a smooth stitching of all 4 cameras. All running at 21fps, Also check performance stats match with datasheet			

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS 2MP capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	Change Bowl position	User should be able to change Bowl position	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.2.5.Test Suite : FastBoot\_SRV

---

### Test Case VISIONSDK-256: FastBoot\_VIP\_3D\_SRV\_OV10635\_913deser

#### Summary:

FastBoot VIP 3D SRV UC supported on TDA2x/TDA2Ex

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

#### Preconditions:

Build Linux Binaries with early srv flag

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN

Run SRV calibration UC if required to generate GPULUT.BIN

Verify whether display shows a smooth stitching of all 4 cameras.

All running at 30fps, Also check performance stats match with datasheet

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux early SRV binaries	EVM boots with Linux early SRV binaries & Display must come up and no buffer drops should be observe	
2	Check Boot time	Boot time should match with release number	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda2xx-evm

#### **Execution Details**

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

### 1.3.Test Suite : Mono\_Cam

---

### 1.3.1.Test Suite : VIP

#### 1.3.1.1.Test Suite : VIP\_SingleCam\_Capture\_Display

Test Case VISIONSDK-1: VIP_Capture_Display_Input_OV10635_Output_7inch_LCD			
<u>Summary:</u>			
Capture Display UC			
Input : OV10635			
Output : 7" LCD			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor  & Display Output as 7" LCD	Capture Source should be OV10635 Sensor  & Display device as 7" LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

Test Case VISIONSDK-2: VIP_Capture_Display_Input_OV10635_Output_HDMI_720P			
<u>Summary:</u>			
Capture Display UC			
Input : OV10635			
Output : HDMI 720P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
#:	Step actions:	Expected Results:	Execution Status:

1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as HDMI 720P	Capture Source should be OV10635 Sensor & Display device as HDMI 720P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-5: VIP\_Capture\_Display\_Input\_OV10635\_Output\_HDMI\_1080P**Summary:

Capture Display UC

supported on all platforms

Input : OV10635/OV10640

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

should not change Capture output dynamically

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observed	
3	Check for graphics elements displayed on screen	TI logo should be on left top corner All load bars should be on left bottom corner	
4	Press "P"	Check performance stats Should print CPU Load of all cores, Capture & Display FPS numbers DDR, Heap memory, OCMC, SR1, remote log buffer memory usage	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		

	tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_stress c_performance c_qualification c_stability
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath  ]]>

**Test Case VISIONSDK-112: VIP\_Capture\_Display\_Input\_OV10635\_Output\_10inch\_LCD**Summary:

Capture Display UC

Input : OV10635

Output : 10" LCD

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor  & Display Output as 10" LCD	Capture Source should be OV10635 Sensor  & Display device as 10" LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_integration		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-113: VIP\_Capture\_Display\_Input\_OV10635\_Output\_10inch\_OSD\_LCD**Summary:

Capture Display UC

Input : OV10635

Output : 10" OSD LCD

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor  & Display Output as 10" OSD LCD	Capture Source should be OV10635 Sensor  & Display device as 10" OSD LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-195: VIP\_Capture\_SGX\_Copy\_Display\_Input\_OV10635\_Output\_HDMI\_1080P**Summary:

Capture SGX copy Display UC supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

Boot mode - SD boot mode (u-boot,MLO, File system all in SD card)

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_stress c_qualification c_stability m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_3		



Tester	x0246581
Execution Result:	<b>Passed</b>
Execution Mode:	<b>Automated</b>
Execution duration (sec):	
Execution notes	TestLogPath ]]>

**Test Case VISIONSDK-296: VIP\_Capture\_Display\_without\_Sensor**Summary:

Capture Display UC without sensor connected

supported on all platforms

Input : No Sensor connected

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

None of the sensors are connected

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Assert with sensor initialization fails	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-312: VIP\_Capture\_SGX\_Copy\_Display\_Input\_OV10635\_Output\_10inch\_LCD**Summary:

Capture SGX copy Display UC supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

DTB: lcd.dtb

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

Boot mode - SD boot mode (u-boot,MLO, File system all in SD card)

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Go to system setting & select display	LCD 10" should be selected	

	device as LCD 10"		
3	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_stress c_qualification c_stability m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.1.2.Test Suite : VIP\_Capture\_FrameCopy\_Display

<b>Test Case VISIONSDK-6: VIP_Capture_FrameCopy_A15_Display</b>			
<u>Summary:</u>			
Capture FrameCopy Display UC on A15			
Input : OV10635			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (A15) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

### Test Case VISIONSDK-7: VIP\_Capture\_FrameCopy\_DSP1\_Display

Summary:

Capture FrameCopy Display UC on DSP1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (DSP1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_algorithm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-8: VIP\_Capture\_FrameCopy\_EVE1\_Display**Summary:

Capture FrameCopy Display UC on EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		

<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

**Test Case VISIONSDK-196: VIP\_Capture\_FrameCopy\_A15\_SGX\_Copy\_Display**Summary:

Capture FrameCopy SGX copy Display UC on A15

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Alg Frame Copy (A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-197: VIP\_Capture\_FrameCopy\_EVE1\_SGX\_Copy\_Display**Summary:

Capture FrameCopy SGX copy Display UC on EVE1

supported on TDA2x Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	

2	Run "1CH VIP capture + Alg FrameCopy (EVE1) + SGX Copy + DISPLAY - (TDA2xx ONLY)" UC	Display must come up and no buffer drops should be observe
<u>Execution type:</u>	Manual	
<u>Estimated exec. duration (sec):</u>		
<u>Priority:</u>	Medium	
<u>Keywords:</u>	tda2xx-evm tda2px-evm	
<b>Execution Details</b>		
Build	REL_3_3	
Tester	x0246581	
<u>Execution Result:</u>	<b>Passed</b>	
<u>Execution Mode:</u>	<b>Automated</b>	
<u>Execution duration (sec):</u>		
Execution notes	TestLogPath ]]>	

#### Test Case VISIONSDK-202: VIP\_Capture\_FrameCopy\_A15\_Connector\_Links\_A15\_SGX\_Copy\_Display

##### Summary:

Capture + FrameCopy + Connetor Links (Dup, Merge, Select, Gate) + SGX copy Display UC on A15

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP + Alg Frame Copy (A15) + Connetor Links (Dup, Merge, Select, Gate on A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_connector_links		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

### 1.3.1.3.Test Suite : VIP\_Capture\_SubFrameCopy\_Display

#### Test Case VISIONSDK-168: VIP\_Capture\_SubFrameCopy\_EVE1\_Display

##### Summary:

Capture Sub Frame Copy Display UC with EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + SubFrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observed	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath  ]]>		

**1.3.1.4.Test Suite : VIP\_Capture\_IPC\_Display****Test Case VISIONSDK-230: VIP\_Capture\_IPC\_Display\_Single\_core**Summary:

Capture IPC Display UC with Single core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

IPU1\_0 -&gt; DSP1 -&gt; IPU1\_0

IPU1\_0 -&gt; DSP2 -&gt; IPU1\_0

IPU1\_0 -&gt; EVE1 -&gt; IPU1\_0

IPU1\_0 -&gt; EVE2 -&gt; IPU1\_0

IPU1\_0 -&gt; EVE3 -&gt; IPU1\_0

IPU1\_0 -&gt; EVE4 -&gt; IPU1\_0

IPU1\_0 -&gt; IPU1\_1 -&gt; IPU1\_0

IPU1\_0 -&gt; A15 -&gt; IPU1\_0

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture IPC Display UC Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>		Manual	

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-231: VIP\_Capture\_IPC\_Display\_Multi\_core

##### Summary:

Capture IPC Display UC with Multi core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

IPU1\_0 -> DSP1 -> IPU1\_1 -> DSP2 -> IPU1\_0

IPU1\_0 -> EVE1 -> DSP1 -> A15\_0 -> DSP1 -> IPU1\_0

IPU1\_0 -> EVE1 -> DSP1 -> A15\_0 -> IPU1\_0

IPU1\_0 -> A15\_0 -> DSP1 -> DSP2 -> IPU1\_1 -> EVE1 -> IPU1\_0

IPU1\_0 -> EVE1 -> DSP1 -> EVE2 -> DSP2 -> EVE3 -> A15\_0 -> IPU1\_1 -> EVE4 (Repeated twice) -> IPU1\_0

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Capture IPC Display UC Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps	

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.1.5.Test Suite : VIP\_Capture\_Color\_To\_Gray\_Display

#### Test Case VISIONSDK-167: VIP\_Capture\_Color\_To\_Gray\_Display

Summary:

Single Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture Color to Gray Display UC  Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**1.3.1.6.Test Suite : VIP\_Capture\_DSSWB\_Display****Test Case VISIONSDK-178: VIP\_Capture\_DSSWB\_Display**Summary:

Single Cam Capture DSSWB Display UC

supported on TDA2x/TDA2Ex

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture DSSWB Display UC  Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		



<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.1.7.Test Suite : VIP\_Capture\_VPE\_Display

Test Case VISIONSDK-189: VIP\_Capture\_VPE\_Display

Summary:

Single Cam Capture VPE Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture VPE Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

Execution type:

Manual

Estimated exec. duration (sec):

Priority:

Medium

Keywords:

tda2xx-evm  
tda2ex-evm  
tda2ex-entry  
tda2px-evm  
m\_vpe

Execution Details

Build

REL\_3\_3

Tester

x0246581

Execution Result:

Passed

Execution Mode:

Manual

Execution duration (sec):

### 1.3.1.8.Test Suite : VIP\_SingleCam\_Capture\_Analytics\_Display

<b>Test Case VISIONSDK-9: VIP_Capture_Edge_detect_Display</b>			
<u>Summary:</u>			
VIP Capture Edge Detect Display UC with EVE1			
Input : OV10635			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Edge Detect (EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	
<u>Priority:</u>		Medium	

<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath  ]]>

<b>Test Case VISIONSDK-10: VIP_Capture_DOF_1Pyramid_Display</b>			
<u>Summary:</u> VIP Capture DOF Display UC with 1 Pyramid  Input : OV10635  Output : HDMI 1080P			
<u>Preconditions:</u>  Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Dense Optical Flow (EVE) + Display UC with 1 Pyramid	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

<b>Test Case VISIONSDK-11: VIP_Capture_DOF_2Pyramid_Display</b>			
<u>Summary:</u> VIP Capture DOF Display UC with 2 Pyramid  Input : OV10635  Output : HDMI 1080P			
<u>Preconditions:</u>  Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings	Capture Source should be OV10635	

	Select Capture Source as OV10635 & Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Dense Optical Flow (EVE) + Display UC with 2 Pyramid	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

### 1.3.1.9.Test Suite : VIP\_Capture\_Encode\_Decode\_Display

<b>Test Case VISIONSDK-12: VIP_Capture_Encode_Decode_MJPEG_Display</b>			
<u>Summary:</u> VIP Capture Encode Decode Display UC with MJPEG Frames Input : OV10635 Output : HDMI 1080P			
<u>Preconditions:</u> Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + ENC + DEC + Display UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

**Test Case VISIONSDK-13: VIP\_Capture\_Encode\_Decode\_H264\_Display**Summary:

VIP Capture Encode Decode Display UC with H264 Frames

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + ENC + DEC + Display UC & select "1" for H264 Frames	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-199: VIP\_Capture\_Encode\_Decode\_MJPEG\_SGX\_Copy\_Display**Summary:

VIP Capture Encode Decode SGX copy Display UC with MJPEG Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Encode + Decode + SGX Copy + DISPLAY" UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe	

3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

#### Test Case VISIONSDK-198: VIP\_Capture\_Encode\_Decode\_H264\_SGX\_Copy\_Display

##### Summary:

VIP Capture Encode Decode SGX copy Display UC with H264 Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Encode + Decode + SGX Copy + DISPLAY" UC & select "1" for H264	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

### 1.3.1.10.Test Suite : VIP\_Capture\_Dual\_Display

**Test Case VISIONSDK-281: VIP\_Capture\_Dual\_Display\_Input\_OV10635\_Output\_7inch\_LCD\_HDMI**Summary:

Single Cam Capture + Dual Display UC

Input : OV10635

Output : 7" LCD &amp; HDMI

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 7" LCD	Capture Source should be OV10635 Sensor & Display device as 7" LCD	
2	Run 1 Ch VIP capture + Dual Display UC	Display must come up on LCD & HDMI and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

**Test Case VISIONSDK-282: VIP\_Capture\_Dual\_Display\_Input\_OV10635\_Output\_10inch\_LCD\_HDMI**Summary:

Single Cam Capture + Dual Display UC

Input : OV10635

Output : 10" LCD &amp; HDMI

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 10" LCD	Capture Source should be OV10635 Sensor & Display device as 10" LCD	
2	Run 1 Ch VIP capture + Dual Display UC	Display must come up on LCD & HDMI and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			

Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

### 1.3.1.11.Test Suite : VIP\_Capture\_Display\_DUAL\_A15\_SMP\_BIOS

#### Test Case VISIONSDK-285: VIP\_Capture\_Display\_Input\_OV10635\_Output\_HDMI\_1080P

##### Summary:

Capture Display UC with DUAL A15 SMP BIOS

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

Binaries should be built with DUAL\_A15\_SMP\_BIOS=yes

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Run other available UCs	Should be able to run UCs without any issues	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

### 1.3.1.12.Test Suite : VIP\_Capture\_Safe\_FrameCopy\_Display

#### Test Case VISIONSDK-290: VIP\_Capture\_Safe\_FrameCopy\_A15\_Display

##### Summary:

Capture Safe FrameCopy Display UC on A15

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run "1CH VIP capture + Safe Frame Copy (A15) + Display" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		



## 1.3.2.Test Suite : HDMI

### 1.3.2.1.Test Suite : HDMI\_Capture\_Display

#### Test Case VISIONSDK-3: HDMI\_Capture\_Display\_Input\_HDMI\_Output\_LCD

##### Summary:

Capture Display UC

Input : HDMI

Output : LCD

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as HDMI & Display Output as LCD	Capture Source should be HDMI & Display device as LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_capture m_display		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

#### Test Case VISIONSDK-4: HDMI\_Capture\_Display\_Input\_HDMI\_Output\_HDMI

##### Summary:

Capture Display UC

Input : HDMI

Output : HDMI

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as HDMI	Capture Source should be HDMI & Display device as HDMI	

	& Display Output as HDMI		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_qualification c_integration		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

### 1.3.2.2.Test Suite : HDMI\_Capture\_Analytics\_Display

Test Case VISIONSDK-14: HDMI_Capture_SOF_Display			
<u>Summary:</u>			
HDMI Capture SOF Display UC			
Input : HDMI			
Output : HDMI			
<u>Preconditions:</u>			
Verify whether display shows flow vectors of the captured input Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as HDMI  & Display Output as HDMI 1080P	Capture Source should be HDMI  & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + Sparse Optical Flow (EVE1) + Display UC	Display must come up and no buffer drops should be observe  Flow vectors of the captured input should be displayed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath		

&gt;&gt;

**Test Case VISIONSDK-15: HDMI\_Capture\_LD\_Display**Summary:

HDMI Capture Lane Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Lane detection  
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + Lane Detect (DSP1 + EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath		
	>>		

**Test Case VISIONSDK-16: HDMI\_Capture\_TLR\_Display**Summary:

HDMI Capture Traffic Light Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Traffic Light detection  
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + Traffic Light Recognition (TLR) (DSP1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		

<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath  ]]>

**Test Case VISIONSDK-17: HDMI\_Capture\_PD\_Display**Summary:

HDMI Capture Pedestrian Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Pedestrian detection  
All running at 30fps, Also check performance stats match with datasheet

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + PD + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-18: HDMI\_Capture\_TSR\_Display**Summary:

HDMI Capture Traffic Sign Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Traffic Sign detection  
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + TSR + Display UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-19: HDMI\_Capture\_VD\_Display**Summary:

HDMI Capture Vehicle Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Vehicle detection  
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + VD + Display UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-20: HDMI\_Capture\_PD\_TSR\_VD\_Display**Summary:

HDMI Capture Pedestrian, Traffic Sign, Vehicle Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views Pedestrian, Traffic Sign, Vehicle Detect  
All running at 30fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as HDMI  & Display Output as HDMI 1080P	Capture Source should be HDMI  & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + PD+TSR+VD + Display UC	Display must come up and no buffer drops should be observed	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm m_algorithm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-21: HDMI\_Capture\_FrontCam\_Analytics\_Display**Summary:

HDMI Capture FrontCam Analytics Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the single cam views PD+TSR+VD+LD+TLR+SFM  
All running at 15fps, Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm	

	tda3xx-evm tda2px-evm c_stress c_stability m_algorithm
Execution Details	
Build	REL_3_3
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Automated
Execution duration (sec):	
Execution notes	TestLogPath  ]]>

### 1.3.3.Test Suite : TIDL

#### 1.3.3.1.Test Suite : SemSeg

<b>Test Case VISIONSDK-295: Semantic_Segmentation</b>			
<u>Summary:</u>			
Semantic Segmentation UC			
Check Performance numbers			
<u>Preconditions:</u>			
Verify below files should be present in SD card			
1. Use case config file (TIDLCFG.TXT)			
2. IN.RGB			
3. PRM_SEMSEG.BIN			
4. NET_SEMSEG.BIN			
5. inData_SEMSEG			
6. inHeader_SEMSEG			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Select Semantic Segmentation UC from TIDL Menu	Display should come up with algrthim running	
2	Press "P" to check performance numbers	Should be running at 10-15 fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2px-evm c_performance		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### 1.3.3.2.Test Suite : TIDL\_FILE\_IO

<b>Test Case VISIONSDK-158: TIDL_File_IO_UC_DSP_Performance</b>			
<u>Summary:</u>			
TIDL File IO UC on DSP:			
Check Performance numbers			
<u>Preconditions:</u>			
Verify below files should be present in SD card			
1. Use case config file (TIDLCFG.TXT)			
2. IN.RGB			



3. PRM.BIN

4. NET.BIN

#:	Step actions:	Expected Results:	Execution Status:
1	1. Select TIDL File IO UC from Main Menu  2. Select DSP  3. Select Dump Output frmaes to file	Frame will be dumped to SD card as OUT.BIN	
2	Press "P" to check performance numbers	On DSP should be <=120sec	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda3xx-evm c_performance		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-159: TIDL\_File\_IO\_UC\_DSP\_Dump\_Frames\_File**Summary:

TIDL File IO UC on DSP:

Dumping frmaes to File

Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)

2. IN.RGB

3. PRM.BIN

4. NET.BIN

#:	Step actions:	Expected Results:	Execution Status:
1	1. Select TIDL File IO UC from Main Menu  2. Select DSP  3. Select Dump Output frmaes to file	Frame will be dumped to SD card as OUT.BIN	
2	Compare with Reference output	On comparing no differences should be seen	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-160: TIDL\_File\_IO\_UC\_DSP\_Free\_Run**Summary:

TIDL File IO UC on DSP:

Free Run

Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)
2. IN.RGB
3. PRM.BIN
4. NET.BIN

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	1. Select TIDL File IO UC from Main Menu 2. Select DSP 3. Select Free run	No Display & also No Frame will be dumped to SD card	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-161: TIDL\_File\_IO\_UC\_EVE\_Performance**Summary:

TIDL File IO UC on EVE:

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)
2. IN.RGB
3. PRM.BIN
4. NET.BIN

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	1. Select TIDL File IO UC from Main Menu 2. Select EVE 3. Select Dump Output frames to file	Frame will be dumped to SD card as OUT.BIN	
2	Press "P" to check performance numbers	On EVE should be <=450sec	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration</u>	60.00		

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda3xx-evm c_performance
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-162: TIDL\_File\_IO\_UC\_EVE\_Dump\_Frames\_File

##### Summary:

TIDL File IO UC on EVE:

Dump frames to file

##### Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)
2. IN.RGB
3. PRM.BIN
4. NET.BIN

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	1. Select TIDL File IO UC from Main Menu  2. Select EVE  3. Select Dump Output frames to file	Frame will be dumped to SD card as OUT.BIN	
2	Compare with Reference output	On comparing no differences should be seen	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-163: TIDL\_File\_IO\_UC\_EVE\_Free\_Run

##### Summary:

TIDL File IO UC on EVE:

Free Run

##### Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)
2. IN.RGB

3. PRM.BIN

4. NET.BIN

#:	Step actions:	Expected Results:	Execution Status:
1	1. Select TIDL File IO UC from Main Menu  2. Select EVE  3. Select Free run	No Display & also No Frame will be dumped to SD card	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda3xx-evm	
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.3.3.Test Suite : TIDL\_OD

#### Test Case VISIONSDK-333: TIDL\_Object\_Detection

##### Summary:

TIDL Object Detection UC

Check Performance numbers

##### Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)
2. IN.RGB
3. PRM\_OD.BIN
4. NET\_OD.BIN
5. inData\_OD
6. inHeader\_OD

#:	Step actions:	Expected Results:	Execution Status:
1	1. Select TIDL Object Detection UC from TIDL Menu	Display should come up with algrthim running	
2	Press "P" to check performance numbers	Should be running at 10-15 fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2px-evm c_performance		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

### 1.3.4.Test Suite : MISC

#### 1.3.4.1.Test Suite : NullSrc\_Null\_Link

##### Test Case VISIONSDK-181: NullSrc\_Null\_UC

###### Summary:

Null Src Null UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: MJPEG Bitstream

Output : Null

###### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Null Src Null UC  Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm m_connector_links		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

##### Test Case VISIONSDK-182: NullSrc\_Decode\_Display\_MJPEG\_Frames

###### Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: MJPEG Bitstream

Output : HDMI 1080P

###### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Null Src Decode Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<b>Execution type:</b>		Manual	
<b>Estimated exec. duration (sec):</b>			
<b>Priority:</b>		Medium	

<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-183: NullSrc\_Decode\_Display\_H264\_Frames**Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: H264 Bitstream

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Null Src Decode Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-184: NullSrc\_Display\_UC\_DataFormat\_YUV420SP**Summary:

Null Src Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: YUV420SP

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Display must come up and no buffer drops should be observed Check Logs of Null Src Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm

<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
Execution Result:	<b>Passed</b>
Execution Mode:	<b>Manual</b>
Execution duration (sec):	

**Test Case VISIONSDK-185: NullSrc\_Display\_UC\_DataFormat\_YUV422I**Summary:

Null Src Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: YUV422I

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Display must come up and no buffer drops should be observed Check Logs of Null Src Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

Execution type: ManualEstimated exec. duration (sec):Priority: MediumKeywords: tda2xx-evm**Execution Details**

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**

Execution duration (sec):

**Test Case VISIONSDK-201: NullSrc\_Decode\_Display\_MJPEG\_Frames\_L**Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input Data Format: MJPEG Bitstream

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Decode + Display (Only 1920x1080 H264/MJPEG Video Input Bit-Stream Supported)" UC	Display must come up and no buffer drops should be observe	

Execution type: ManualEstimated exec. duration (sec):Priority: MediumKeywords: tda2xx-evm

<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-200: NullSrc\_Decompile\_Display\_H264\_Frames\_L

##### Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input Data Format: H264 Bitstream

Output : HDMI 1080P

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Decode + Display (Only 1920x1080 H264/MJPEG Video Input Bit-Stream Supported)" UC	Display must come up and no buffer drops should be observe	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda2xx-evm

##### **Execution Details**

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

### 1.3.4.2.Test Suite : SyncLink

#### Test Case VISIONSDK-187: VIP\_Capture\_Sync\_Null

##### Summary:

Single Cam Capture Sync Null UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : Null

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Capture Sync Null UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda2xx-evm



	tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.4.3.Test Suite : DupLink

Test Case VISIONSDK-165: VIP\_Capture\_Dup\_Display

Summary:

Single Cam Capture Dup Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture Dup Display UC  Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

Execution type:

Manual

Estimated exec. duration (sec):

Priority:

Medium

Keywords:

tda2xx-evm  
tda2ex-evm  
tda3xx-evm  
tda2ex-entry  
tda2px-evm  
m\_connector\_links

Execution Details

Build

REL\_3\_3

Tester

x0246581

Execution Result:

Passed

Execution Mode:

Manual

Execution duration (sec):

### 1.3.4.4.Test Suite : MergeLink

<b>Test Case VISIONSDK-166: VIP_Capture_Merge_Display</b>			
<u>Summary:</u>			
Single Cam Capture Merge Display UC			
supported on TDA2x/TDA2Ex/TDA3x			
Input : OV10635 Sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>

1	Run Testsuite	Check Logs of Capture Merge Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links	
<b>Execution Details</b>			
Build		REL_3_3	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

### 1.3.4.5.Test Suite : StatisticsLogs

<b>Test Case VISIONSDK-211: VIP_SingleCam_Capture_Display_Statistics_Logs</b>			
<u>Summary:</u>			
Capture Display UC			
Input : OV10635			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Press "P"	It should print all performance statistics  1. Load on all cores 2. DDR BW usage 3. FPS for each Link 4. Latency to process frames	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build		REL_3_3	
Tester		x0246581	

<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

**Test Case VISIONSDK-212: Print\_PRCM\_Statistics\_Dpll\_Status**Summary:

Print PRCM Statistics Dpll Status

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics  Press "1" for Dpll Status	On selecting "1" should print DPLL Statistics	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-213: Print\_PRCM\_Statistics\_Temperature**Summary:

Print PRCM Statistics Temperature

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics  Press "2" for Temperature	On selecting "2" should print current min & max temperature on all cores	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		

<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

**Test Case VISIONSDK-214: Print\_PRCM\_Statistics\_Voltage**Summary:

Print PRCM Statistics Voltage

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "3" for Voltage	On selecting "3" should print voltage usage	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

**Test Case VISIONSDK-215: Print\_PRCM\_Statistics\_Module\_Power\_State**Summary:

Print PRCM Statistics Module Power State

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "4" for Module Power State	On selecting "4" should print Module Power State  Module Name & Module state  Module SIDLE State  Clock Activite State  Power Domain State	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry		

	tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

**Test Case VISIONSDK-216: Print\_PRCM\_Statistics\_CPU\_Frequency**
Summary:

Print PRCM Statistics CPU Frequency

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "5" for CPU Frequency	On selecting "5" should print Frequency of all cores	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

**Test Case VISIONSDK-217: Print\_PRCM\_Statistics\_Peripherals\_Frequency**
Summary:

Print PRCM Statistics Peripherals Frequency

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "6" for Peripherals Frequency	On selecting "6" should print Peripherals Frequency of QSPI & DSS	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry		

	tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

#### Test Case VISIONSDK-218: Print\_PRCM\_Statistics\_Prcm\_Register\_Data

##### Summary:

Print PRCM Statistics Prcm Register Data

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics  Press "7" for Prcm Register Data	On selecting "6" should print Prcm Register Data of all POWER DOMAIN  Reg. Address & Value	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

#### Test Case VISIONSDK-219: Print\_PRCM\_Statistics\_Power\_Consumption

##### Summary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics  Press "8" for Power Consumption	On selecting "8" should print Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm		

	tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath  ]]>

#### Test Case VISIONSDK-220: Print\_PRCM\_Statistics\_All\_PRCM\_Stats

##### Summary:

Print PRCM Statistics All PRCM Stats

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics  Press "9" for All PRCM Stats	On selecting "9" should print All PRCM Stats  Dpll Status  Temperature  Voltage  Module Power State  CPU frequency  Peripherals Frequency  Prcm register Data  Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

#### 1.3.4.6.Test Suite : FATFS

#### Test Case VISIONSDK-228: File\_IO\_UC\_MMCSd\_IPU1\_0

##### Summary:

File IO UC using MMCSd on IPU1\_0

Read ApplImage from SD card &

write back same to SD card

Preconditions:

Verify FATFS running IPU1\_0

Build SDK with FATFS flags enabled & NDK disabled and FATFS lib on IPU1\_0

#:	Step actions:	Expected Results:	Execution Status:
1	1. Select File IO UC from Menu	No Display On console, Time taken to read & write should be displayed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

### 1.3.4.7.Test Suite : Limp\_Home\_Mode

Test Case VISIONSDK-277: Limp_Home_Mode			
<u>Summary:</u>			
Limp Home Mode UC			
Input : HDMI			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify whether display shows a smooth stitching of the single cam views PD+TSR+VD+LD+TLR+SFM All running at 15fps, Also check performance stats match with datasheet			
#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observe	
3	Press "t"	Should Show Thermal Configuration Menu	
4	Choose below listed options one by one by one  1: Change THOT Temperature  2: Change TCOLD Temperature  3: Show current THOT Temperature  4: Show current TCOLD Temperature  5: Change Threshold Step Size	Option should be selected  On pressing "1" should display temperature to change ranging from 10 -100 deg c  On pressing "2" should display temperature to change ranging from 10 -100 deg c  On pressing "3" should display current THOT temperature	



	6: Show Limp Home Status 7: Switch to Limp Home Mode 8: Return to Normal Usecase Mode x: Exit Thermal Menu	On pressing "4" should display current TCOLD temperature  On pressing "5" should display temperature to change ranging from 3 - 15 deg c  On pressing "6" should display current Limp Home Status (Limp Home Mode = ACTIVE!! or IN-ACTIVE!! should display on console)  On pressing "7" should switch to Limp Home Mode  On pressing "8" Return to Normal Usecase Mode  On pressing "x" should Exit from Thermal menu
<u>Execution type:</u>	Automated	
<u>Estimated exec. duration (sec):</u>	60.00	
<u>Priority:</u>	Medium	
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm	
<b>Execution Details</b>		
Build	REL_3_3	
Tester	x0246581	
<u>Execution Result:</u>	<b>Passed</b>	
<u>Execution Mode:</u>	<b>Manual</b>	
<u>Execution duration (sec):</u>		

### 1.3.4.8.Test Suite : Task\_time\_measure\_utility

Test Case VISIONSDK-289: VIP_Capture_Display_task_time_measure_utility			
<u>Summary:</u>			
Capture Display UC			
supported on all platforms			
Input : OV10635			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Press "4" for Demonstrate Task Timer utility	On console should print Global time taken & actual time taken by utility for function	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		

Execution Details	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Automated</b>
<u>Execution duration (sec):</u>	
Execution notes	TestLogPath ]]>

### 1.3.4.9.Test Suite : Stereo\_UC

Test Case VISIONSDK-303: 2CH\_LVDS\_Capture\_VPE\_Stereo\_Display

Summary:

2CH LVDS Capture + VPE + Stereo + Display UC

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run "2CH LVDS capture + VPE + Stereo (DSPx, EVEx) + Display (HDMI)" UC	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-304: 2CH_LVDS_Capture_Stereo_Auto_Calibration			
<u>Summary:</u> 2CH LVDS capture + VPE + Stereo Rectification + Display (HDMI) - USED for on-line Stereo Calibration UC supported on TDA2x Input : OV10635 Output : HDMI 1080P <u>Preconditions:</u> Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run "2CH LVDS capture + VPE + Stereo Rectification + Display (HDMI) - USED for on-line Stereo Calibration" UC	Display must come up and no buffer drops should be observe  Stereo cameras should be calibrated	
3	Press "P"	Check performance stats	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-305: 2CH\_LVDS\_Capture\_Stereo\_Manual\_Calibration**Summary:

2CH LVDS capture + VPE + Remap + Display (HDMI) - USED for off-line Stereo Calibration UC

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run "2CH LVDS capture + VPE + Remap + Display (HDMI) - USED for off-line Stereo Calibration" UC	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		

Execution duration (sec):

### Test Case VISIONSDK-306: Network\_Stereo\_Display

#### Summary:

NW + Stereo + Display UC

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

#### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run "Network + Stereo + Display (HDMI)" UC	Display must come up & No buffer drops should observed	
2	Open command prompt in host PC  Execute below commands using network_ctrl.exe  <pre>#network_ctrl --ipaddr &lt;ipaddr&gt; [--port &lt;server port&gt;] --cmd &lt;command string&gt; &lt;command&gt;</pre> stereo_calib_image_save, stereo_calib_lut_to_qspi, stereo_set_params, stereo_set_dynamic_params, stereo_calib_lut_to_qspi, object_detect_set_dynamic_params	EVM should not hang, and network command should work according to command on target side	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: None

#### **Execution Details**

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

### 1.3.4.10.Test Suite : TLFW\_verify

### Test Case VISIONSDK-309: TLFW\_verification

#### Summary:

Verifying testlink fw

#### Preconditions:

staf should be running

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	1. Add all vision SDk test cases to test link, Map with requirements from JIRA  2. Create a test plan & under that create a build	User should be able to trigger all automated test cases from test link	

	3. Add test cases to execute for that particular build 4. Trigger all automated test cases from test link 5. Execute remaining manual test cases from test link 6. Generate test report	& also able to update test result for manual test cases	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-325: VSDK\_restructuring\_directory\_structure**

Summary:  
restructuring directory structure for VSDk 3.0 release

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Restructure directory structure for VSDK into separate Folder as below  link_fw  Make System (Common for FW & all Apps modules)  sample_app  apps  algorithms  docs  testsuite	Directory structure should be as stated	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.5.Test Suite : ECC\_FFI

---

**Test Case VISIONSDK-121: Capture\_FrameCopy\_FFI\_DSP1\_Display**
Summary:

ECC FFI UC - 1CH VIP capture + QM Alg Frame Copy with FFI (DSP1) + Display

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Ensure Binaries build with ECC\_FFI\_INCLUDE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run "1CH VIP capture + QM Alg Frame Copy with FFI (DSP1) + Display " UC	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath  ]]>		

### 1.3.6.Test Suite : IPC\_LIB

<b>Test Case VISIONSDK-123: IPC_LIB</b>			
<u>Summary:</u>			
IPC LIB UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Build binaries for all platform with IPC_LIB_INCLUDE=yes			
Verify that Capture/display is running on IPU1-0 at 30fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

<b>Test Case VISIONSDK-240: Low_Latency_IPC</b>			
<u>Summary:</u>			
Low Latency IPC UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Build binaries for all platform with IPC_LIB_INCLUDE=yes & WORKQ_INCLUDE=yes			
Verify that Capture/display is running on IPU1-0 at 30fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	



### 1.3.7.Test Suite : Robust\_RVC

---

#### Test Case VISIONSDK-327: RVC\_Capture\_Display\_VIDDEC\_TVP5158\_10inch\_LCD

##### Summary:

RVC Capture Display UC

Input : VIDDEC\_TVP5158

Output : 10" LCD

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Build binaries with MAKECONFIG=tda2xx_evm_robust_rvc	Binaries should be built successfully	
2	Load binaries on TDA2xx EVM	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.4.Test Suite : Open\_Compute

---

### 1.4.1.Test Suite : OpenCV

Test Case VISIONSDK-96: VIP_Capture_OpenCV_Canny_Display			
<u>Summary:</u>			
OpenCV Canny Display UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
BIOS binaries build with			
ENABLE_OPENCV=yes			
OPENCL_ENABLE=yes			
Verify that Capture/display is running on IPU1-0 at 30fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 1CH VIP capture + OpenCV Canny (A15) + Display UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm c_stress c_stability		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

<b>Test Case VISIONSDK-97: VIP_Capture_OpenCV_OpenCL_Dilation_Display</b>			
<u>Summary:</u>			
OpenCV OpenCL Dilation Display UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
BIOS binaries build with			
ENABLE_OPENCV=yes			
OPENCL_ENABLE=yes			

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1CH VIP capture + OpenCV OpenCL Dilation (A15 + DSP) + Display UC	Display must come up and no buffer drops should be observed	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm c_stress c_stability		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath  ]]>		

**Test Case VISIONSDK-205: VIP\_Capture\_OpenCV\_Canny\_SGX\_Copy\_Display**Summary:

OpenCV Canny SGX copy Display UC

supported on TDA2x

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Linux binaries build with

ENABLE\_OPENCV=yes

OPENCL\_ENABLE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + OpenCV Canny (A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observed	
Execution type:	Manual		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-206: VIP\_Capture\_OpenCV\_OpenCL\_Dilation\_SGX\_Copy\_Display**Summary:

OpenCV OpenCL Dilation SGX copy Display UC

supported on TDA2x

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Linux binaries build with

ENABLE\_OPENCV=yes

OPENCL\_ENABLE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + OpenCV OpenCL Dilation (A15 + DSP) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.4.2.Test Suite : OpenCL

Test Case VISIONSDK-98: VIP_Capture_OpenCL_Canny_Display			
<u>Summary:</u>			
OpenCL Canny Display UC			
supported on TDA2x			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
BIOS binaries build with			
ENABLE_OPENCV=yes			
OPENCL_ENABLE=yes			
Verify that Capture/display is running on IPU1-0 at 30fps			
#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 1CH VIP capture + OpenCL Canny (A15) + Display UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm c_stress c_stability		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

<b>Test Case VISIONSDK-99: VIP_Capture_OpenCL_FrameCopy_Display</b>			
<u>Summary:</u> OpenCL Frame Copy Display UC supported on TDA2x Input : OV10635 sensor Output : HDMI 1080P			
<u>Preconditions:</u> BIOS binaries build with			

ENABLE\_OPENCV=yes

OPENCL\_ENABLE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1CH VIP capture + Frame Copy (A15) + Display UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath ]]>		

**Test Case VISIONSDK-207: VIP\_Capture\_OpenCL\_Canny\_SGX\_Copy\_Display**Summary:

OpenCL Canny SGX copy Display UC

supported on TDA2x

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Linux binaries build with

ENABLE\_OPENCV=yes

OPENCL\_ENABLE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + OpenCL Canny AlgLink on Linux A15 + SGX/DRM DISPLAY(A15)" UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-208: VIP\_Capture\_OpenCL\_Copy\_SGX\_Copy\_Display**Summary:

OpenCL copy SGX copy Display UC

supported on TDA2x

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Linux binaries build with

ENABLE\_OPENCV=yes

OPENCL\_ENABLE=yes

Verify that Capture/display is running on IPU1-0 at 30fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + OpenCL Copy (A15->DSP) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observed	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			



### 1.4.3.Test Suite : OpenVX

#### Test Case VISIONSDK-223: OpenVX\_Confirmation\_Test

##### Summary:

OpenVX Confirmation Test v1.1

supported on both Bios/Linux

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM Run OpenVX Confirmation Test v1.1	Confirmation test should run automatically	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-224: OpenVX\_Tutorials

##### Summary:

OpenVX Tutorials

supported on both Bios/Linux

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM Run OpenVX Tutorials	Tutorials should run automatically	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		

<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-225: VIP\_Capture\_OpenVX\_Display\_Input\_OV10635\_Output\_HDMI\_1080P**Summary:

OpenVX Capture Display UC supported on Bios

Input : OV10635

Output : HDMI 1080P

Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor & Display Output as HDMI 1080P	Capture Source should be OV10635 Sensor & Display device as HDMI 1080P	
2	Run "VIP Single Channel Capture + OpenVX + Display" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.5.Test Suite : Multi\_Cam

---

### 1.5.1.Test Suite : Multi\_Channel\_LVDS\_Capture\_Display

<b>Test Case VISIONSDK-22: VIP_4CH_Capture_Display_OV10635_913deser</b>			
<u>Summary:</u>			
4 Channel Capture Display UC			
Input : OV10635 with 913/914 deserializer			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify whether display shows a smooth stitching of the 4 views in Mosaic All running at 30fps. Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run "4CH VIP Capture + Mosaic Display" UC  Select "0" For Single channel mode  Select "1" For Multi channel mode	On selecting "0"  Display must come up with CH0 preview on full screen and no buffer drops should be observe  On selecting "1"  Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Automated</b>		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath  ]]>		

<b>Test Case VISIONSDK-23: VIP_6CH_Capture_Display_OV10635_913deser</b>			
<u>Summary:</u>			
6 Channel Capture Display UC			
Input : OV10635 with 913/914 deserializer			

Output : HDMI 1080P

Preconditions:

Regenerate UC with numbert of max LVDS channel = 6

Verify whether display shows a smooth stitching of the 6 views in Mosaic  
All running at 30fps. Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 4CH VIP Capture + Mosaic Display Display UC	Display must come up and no buffer drops should be observe Six views should come up in Mosaic	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-203: VIP\_4CH\_Capture\_SGX\_Mosaic\_Display\_OV10635\_913deser**

Summary:

4 Channel Capture SGX Mosaic Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the 4 views in Mosaic  
All running at 30fps. Also check performance stats match with datasheet

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + SGX MOSAIC + DISPLAY" UC	Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		

Execution Mode:	Automated
Execution duration (sec):	
Execution notes	TestLogPath
	]]>

## 1.5.2.Test Suite : AVB\_4CH\_Capture\_Mosaic\_Display\_AVBTx

### Test Case VISIONSDK-116: AVB\_4CH\_NW\_Capture\_Mosaic\_Disply\_AVBTx

#### Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + AVB\_Tx/Display (TDA2x & TDA2Ex ONLY) UC

Input: Throuh Network (using AVB Talker)

Output: HDMI1080P/PC

#### Preconditions:

Ensure Build happened with NDK\_PROC\_TO\_USE=ipu1\_1

Ensure Host PC & target is connected through network cable

Run AVB talker in host PC & send MPEG encoded frames to target

Verify that AVB Receives frames from network,decoder is able to decode the MJPEG frame and Display

Verify that 4ch AVB Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps on LCD/HDMI

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot	
2	Select UC	UC should be selected	
3	Enter no of channels as 4	No of channels should be 4	
4	Seectl HDMI Display + AVB TX	Option should be selected	
5	Run avb talker & listener on PC side	Using Talker sent files from PC to target Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]" Using listener dump frame to PC Run "sudo ./avbtp_listener.sh recv.h264"	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

#### Keywords:

tda2xx-evm  
tda2ex-evm  
tda2ex-entry  
tda2px-evm  
c\_regression  
m\_iva

#### Execution Details

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

### Test Case VISIONSDK-258: AVB\_4CH\_NW\_Capture\_Mosaic\_AVBTx

#### Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + AVB\_Tx/Display (TDA2x & TDA2Ex ONLY) UC

Input: Throuh Network (using AVB Talker)

Output: PC

Preconditions:

Ensure Build happened with NDK\_PROC\_TO\_USE=ipu1\_1

Ensure Host PC & target is connected through network cable

Run AVB talker in host PC & send MPEG encoded frames to target

Verify that AVB Receives frames from network,decoder is able to decode the MJPEG frame and Display

Verify that 4ch AVB Capture is running on IPU1-0 at 30fps

No Display

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot	
2	Select UC	UC should be selected	
3	Enter no of channels as 4	No of channels should be 4	
4	Seectl AVB TX	Option should be selected & no display over HDMI	
5	Run avb talker & listener on PC side	Using Talker sent files from PC to target  Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]"  Using listener dump frame to PC  Run "sudo ./avbtp_listener.sh recv.h264"	
Execution type:		Manual	
Estimated exec. duration (sec):			
Priority:		Medium	
Keywords:		tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm	
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:		Passed	
Execution Mode:		Manual	
Execution duration (sec):			



### 1.5.3.Test Suite : SelectLink

---

#### Test Case VISIONSDK-186: VIP\_4CH\_Capture\_Select\_Display

##### Summary:

Multi Cam Capture Select Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

##### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of LVDS Capture Select Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.5.4.Test Suite : VIP\_4CH\_Capture\_Color\_To\_Gray\_Display

---

### Test Case VISIONSDK-188: VIP\_4CH\_Capture\_Color\_To\_Gray\_Display

#### Summary:

Multi Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

#### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of LVDS Capture Color to Gray Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda2xx-evm  
tda3xx-evm

#### **Execution Details**

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

## 1.5.5.Test Suite : VIP\_4CH\_Capture\_VPE\_Sync\_DMA\_SWMS\_Display

### Test Case VISIONSDK-192: VIP\_4CH\_Capture\_VPE\_Sync\_DMA\_SWMS\_Display

#### Summary:

Multi Cam Capture VPE Sync DMA SWMS Display UC

supported on TDA2x/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

On IPU/A15: System EDMA

On DSP: Local DMA

#### Preconditions:

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	<p>Check Logs of LVDS Capture VPE Sync DMA SWMS Display UC</p> <p>Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps</p>	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords:

tda2xx-evm  
tda2ex-evm  
tda3xx-evm  
tda2ex-entry  
tda2px-evm  
c\_integration  
m\_vpe

#### Execution Details

Build REL\_3\_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

## 1.6.Test Suite : Sample\_App

Test Case VISIONSDK-221: NullSrc_Display_UC			
<u>Summary:</u>			
Null Src Display UC			
Input Data Format: TI Logo			
Output : HDMI 1080P			
<u>Preconditions:</u>			
USer should able to build Sample App binaries (BIOS) for TDA2x			
MAKEAPPNAME=sample_app & MAKECONFIG=tda2xx_evm_bios_all			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Sample App binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Display" UC	Display must come up and no buffer drops should be observe  TI Logo should be seen on full screen  Framecopy algorithim should be running on DSP	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm c_qualification m_connector_links		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath  ]]>		

<b>Test Case VISIONSDK-222: NullSrc_Display_UC_L</b>			
<u>Summary:</u>			
Null Src Display UC			
supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux			
Input Data Format: TI Logo			
Output : HDMI 1080P			
<u>Preconditions:</u>			
USer should able to build Sample App binaries (Linux) for TDA2x			
MAKEAPPNAME=sample_app MAKECONFIG=tda2xx_evm_linux_all			

Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Display" UC	Display must come up and no buffer drops should be observe TI Logo should be displayed on full screen Framecopy algorithm should be running on DSP	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.7.Test Suite : Radar

<b>Test Case VISIONSDK-154: NullSrc_Capture_Radar_FFT_EVE1_Null_Read_Frames_SDcard</b>			
<u>Summary:</u>			
Null Source Capture(SD card) Radar FFT on EVE1 Null UC			
Input : AR12			
Output : Null			
<u>Preconditions:</u>			
Input files present in SD card			
Debug prints will be in			
UART1 for TDA2x & UART2 for TDA3x			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as SD card	No display	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-155: NullSrc_Capture_Radar_FFT_EVE1_Null_Write_Frames_SDcard</b>			
<u>Summary:</u>			
Null Source Capture(SD card) Radar FFT on EVE1 Null UC			
Input : AR12			
Output : Null			
<u>Preconditions:</u>			
Input files present in SD card			
Debug prints will be in			
UART1 for TDA2x & UART2 for TDA3x			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC	No display	

	Select Data Read/Write Mode as SD card		
3	Select File IO menu Write single frame to SD card	Writing single frame to SD card should be successful	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-156: NullSrc\_Capture\_Radar\_FFT\_EVE1\_Null\_Read\_Frames\_NW**Summary:

Null Source Capture(Network) Radar FFT on EVE1 Null UC

Input : AR12

Output : Null

Preconditions:

Ensure NDK is enabled in build

Input files sent through network using network\_tx

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as Network	No display	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-157: NullSrc\_Capture\_Radar\_FFT\_EVE1\_Null\_Write\_Frames\_NW**Summary:

Null Source Capture(Network) Radar FFT on EVE1 Null UC

Input : AR12

Output : Null

Preconditions:

Ensure NDK is enabled in build

Input files sent through network using network\_tx

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as Network	No display	
3	Run network_rx to dump files	Should be able to dump fmaes	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			



## 1.8.Test Suite : Build

---

### 1.8.1.Test Suite : VSDK\_Builds

Test Case VISIONSDK-241: VSDK_default_build			
<u>Summary:</u>			
VSDK Default Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
All ti_cmponents (including PDK) should be part of release package			
Copy all necessary components (gcc tool,linaro tool chain)			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Navigate to (vsdk_install_path)/vision_sdk/build  & run make -s showconfig	Should dislay config for tda2xx_evm_bios_all	
2	Check default config	By default all cores are enabled  PROFILE=release  DDR Memory should be 512MB  NDK should be on A15  & A15_TARGET_OS=Bios	
3	run make -s -j depend  & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-249: VSDK_BIOS_different_builds</b>			
<u>Summary:</u>			
VSDK BIOS different configurations Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
All ti_cmponents (including PDK) should be part of release package			
Copy all necessary components (gcc tool,linaro tool chain)			
#:	Step actions:	Expected Results:	Execution Status:
1	Navigate to	Should display config for	

	(vsdk_install_path)/vision_sdk/build & run make -s showconfig	tda2xx_evm_bios_all	
2	Modify Rules.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend  & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_integration	
<u>Attached files</u>		<ul style="list-style-type: none"><li>• BIOS Different Build Config : build_vsdk.sh</li><li>• build_vsdk.sh</li></ul>	
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-250: VSDK\_Linux\_different\_builds**Summary:

VSDK Linux different configurations Build

Preconditions:

Follow Linux UG to Install release package, clone kernel,u-boot,sgx,ipumm,cmem, download filesystems (4.4 kernel)

All ti\_components (including PDK) should be part of release package

Copy all necessary components (gcc tool,linaro tool chain)

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Navigate to (vsdk_install_path)/vision_sdk/build Modify Rules.mk file to MAKECONFIG=tda2xx_evm_linux_all & run make -s showconfig	Should display config for tda2xx_evm_linux_all	
2	Check config params	Memory should be 1024MB IPU_PRIMARY_CORE=ipu2 & A15_TARGET_OS=Linux	
3	run make linux & then make linux_install	Should build kernel	
4	run make -s -j depend & make -s -j	should build apps.out	
5	Modify Rule.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MKAECONFIG selected	

6	Repeat step 3 & 4	Should build sucessfully	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_integration		
<u>Attached files</u>	<ul style="list-style-type: none"> <li>Linux Different Build Config : build_Linux.sh</li> <li>build_Linux.sh</li> </ul>		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-278: VSDK\_KW\_build**Summary:

VSDK Klocwork Build

Preconditions:

Jenkin Node is up &amp; running

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Login to Jenkin server & trigger VSK_KW_build projet	Should build KW project & sent a report with open criticcal & major MISRA-C issues	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.8.2.Test Suite : Radar\_Builds

Test Case VISIONSDK-242: Radar_default_build			
<u>Summary:</u>			
Radar Default Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
Copy all necessary components (gcc tool)			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Navigate to (radar_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda3xx_evm_bios_radar	
2	Check default config	By default all IPU1_0, IPU1_1, DSP1, EVE1 are enabled  Memory should be 128MB  NDK should be disabled  & A15_TARGET_OS=Bios	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-280: Radar_different_builds</b>			
<u>Summary:</u>			
Radar different configurations Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
All ti_components (including PDK) should be part of release package			
Copy all necessary components (gcc tool,linaro tool chain)			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Navigate to (vsdk_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda3xx_evm_bios_radar	

2	Modify Rules.mk file to other available MAKECONFIG  & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend  & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster c_integration		
<u>Attached files</u>	<ul style="list-style-type: none"> <li>• Radar Different Build Config : build_radar.sh</li> <li>• build_radar.sh</li> </ul>		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.9.Test Suite : Release\_Process

Test Case VISIONSDK-245: VSDK_Radar_release_check_list			
<u>Summary:</u>			
VSDK & Radar release check list			
<u>Preconditions:</u>			
VSDK & Radar RC package already installed & tested			
Verify that release goes through the standard release process			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Check for licenses, manifest, release notes, test reports, datasheets	Release shall comply for the basic release process such as export license, OSRB approval etc.	
2	Check there are test cases for all product requirements (planned in release)  & executed in testing phase	Traceability report (Req -> Test) should have all req mapped to tc  Test result matrix should have nothing in "Not Run" state	
3	Check updated project plan, test plan, test strategy docs for release are all available in clearcase	All updated version of docs should be available in clearcase	
4	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
5	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-246: VSDK_package_creation_and_installation</b>			
<u>Summary:</u>			
VSDK package creation & installation on windows & linux machine			
<u>Preconditions:</u>			
VSDK RC package installed & tested			
#:	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components  Modify InstallJammer Environment script  Trigger Jenking project for packaging	Windows & Linux installer should be created	

2	Install on windows machine  Check for all customer collaterals  & Build with default config	Installation should be success  Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc  Build should be success	
3	Install on Linux machine  Check for all customer collaterals  & Build with default config	Installation should be success  Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc  Build should be success	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		c_qualification	
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-247: Radar\_pacckage\_creation\_and\_installation**Summary:

Radar package creation &amp; installation on windows &amp; linux machine

Preconditions:

Radar RC package installed &amp; tested

#:	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
3	Install on Linux machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		c_qualification	
<b>Execution Details</b>			



Build	REL_3_3
Tester	x0246581
Execution Result:	<b>Passed</b>
Execution Mode:	<b>Manual</b>
Execution duration (sec):	

## 1.10.Test Suite : Boot\_Modes

---

## 1.10.1.Test Suite : Secure\_Boot

<b>Test Case VISIONSDK-229: VIP_Capture_Display_UC_HS_Sample</b>			
<u>Summary:</u>			
Capture Display UC on HS Sample			
Input : OV10635			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Build SBL & Appimage with HS_SAMPLE=yes			
&load binaries on HS sample			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Run all UC one by one	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.10.2.Test Suite : SD\_Boot

Test Case VISIONSDK-273: Load_BIOS_Binaries_using_SD_Card			
<u>Summary:</u>			
Load Binaries using SD Card			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy Appimage & MLO to SD card			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-283: Load_Linux_Binaries_using_SD_Card</b>			
<u>Summary:</u>			
Load Binaries using SD Card			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy u-boot, MLO & File system to SD card			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry		

	tda2px-evm c_qualification
Execution Details	
Build	REL_3_3
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

### 1.10.3.Test Suite : QSPI\_Boot

---

**Test Case VISIONSDK-274: Load\_Binaries\_using\_QSPI**
Summary:

Load Binaries using QSPI

Preconditions:

Build Appimage & SBL for QSPI

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & ApplImage to QSPI	SBL & ApplImage should be flashed to QSPI	
3	Discoonnect CCS & Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.10.4.Test Suite : NOR\_Boot

---

Test Case VISIONSDK-276: Load_Binaries_using_NOR			
<u>Summary:</u>			
Load Binaries using NOR			
<u>Preconditions:</u>			
Build Appimage & SBL for NOR			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & Applmage to NOR	SBL & Applmage should be flashed to NOR	
3	Discoonnect CCS & Follow UG to set SYSBOOT PIN for NOR Boot	SYSBOOT PIN should be for NOR Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.10.5.Test Suite : NFS\_Boot

---

<b>Test Case VISIONSDK-284: Load_Linux_Binaries_from_NFS</b>			
<u>Summary:</u>			
Load Binaries from NFS			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy u-boot, MLO & File system to SD card			
Modify uenv.txt to point to filesystem from your NFS path			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries from NFS path & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			



## 1.10.6.Test Suite : CCS\_Boot

Test Case VISIONSDK-332: Load_Binaries_using_CCS			
Summary:			
Load Binaries using CCS			
Preconditions:			
Build binaries			
#:	Step actions:	Expected Results:	Execution Status:
1	Connect EVM through CCS debug  & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Load binaries on each core separately  or use the ".js" script available under vision_sdk/build/rtos/scripts to load on all cores at once	Binaries should be load on each core successfully  & Display main menu on uart console	
3	From Main Menu run any UC	UC should run successfully	
4	Check for few register address whether displaying proper data or not	Data should be proper	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			