



## Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV\_Test\_Plan\_3\_6\_Functional\_TDA2Px

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2017 (c) Testlink Community

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## **Test Project: VISIONSDK**

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Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

## **Test Plan: PSDKV\_Test\_Plan\_3\_6\_Functional\_TDA2Px**

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TDA2Px Functional Test Plan

Will cover all functional test for tda2px-evm

## 1.1.Test Suite : Network

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### 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			
#:	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 "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>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_nw		
<b>Execution Details</b>			
Build	REL_3_6		
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	EVM should not hang, and network command should work according to command on target	

	Execute "sys_reset" command using network_ctrl.exe	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>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		

<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
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	

Execution type: ManualEstimated exec. duration (sec):Priority: Medium

<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
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

#:	Step actions:	Expected Results:	Execution Status:
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 <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>Requirements</u>	ADASVISION-1263: Null & NullSrc clean-up to move Networking RX/Tx functionalities to new network_rx and network_tx li ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1871: IPv6 support configuration ADASVISION-2016: [networking] A15 performance optimization		
<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_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-107: NW\_Rx\_Decode\_Display\_MJPEG\_Frames

##### Summary:

Network Rx Decode Display UC

Input : MPEG Encoded frames

Output : HDMI 1080P

##### 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	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 MJPEG 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</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
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> --usefdtp --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

Requirements ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP  
ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP

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

##### **Execution Details**

Build REL\_3\_6

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

#### 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

#:	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	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>Requirements</u>	ADASVISION-1263: Null & NullSrc clean-up to move Networking RX/Tx functionalities to new network_rx and network_tx li ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw		
<b>Execution Details</b>			
Build	REL_3_6		
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

#:	Step actions:	Expected Results:	Execution Status:
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</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1181: Retransmit support in TFDTP receive ADASVISION-1183: TFDTP support on A15 ADASVISION-2016: [networking] A15 performance optimization		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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-235: NW_Rx_Decode_Display_MJPEG_Frames_TFDTP</b>			
<u>Summary:</u>			
Network Rx Decode Display UC using TFDTP			
Input : MPEG Encoded 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 MJPEG 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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1183: TFDTP support on A15		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

#### Test Case VISIONSDK-236: NW\_Rx\_Decode\_Display\_H264\_Frames\_TFDTP

##### Summary:

Network Rx Decode Display UC using TFDTP

Input : H264Encoded frames

Output : HDMI 1080P

##### 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 "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</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK
<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_6
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

<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	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

Requirements ADASVISION-1135: TFDTP integration with VSDK  
ADASVISION-1696: Improve error diagnostic information in network\_rx for the network tools

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

**Execution Details**

Build REL\_3\_6

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

**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

#:	Step actions:	Expected Results:	Execution Status:
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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

#:	Step actions:	Expected Results:	Execution Status:
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>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw
<b>Execution Details</b>	
Build	REL_3_6
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

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## 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

#:	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 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	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1275: VIP Capture Link to support Multi channel capture ADASVISION-1280: VIP Capture Link to support Inline scaling both down scale and upscale ADASVISION-1290: VIP Capture Link - Detect VIP port overflow & Reset ADASVISION-1295: Display Link support for various input data formats ADASVISION-1300: Display Link - Video window positioning support ADASVISION-1308: Display Link - support for custom resolutions ADASVISION-1321: Display Link - Support 8-bit TDM mode display ADASVISION-1582: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support all the Bios single camera usecases which use one DSP & M4 ADASVISION-830: For all SRV - DSP load optimization using SIMD		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display		

Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### 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

<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 observe	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements  
ADASVISION-1275: VIP Capture Link to support Multi channel capture  
ADASVISION-830: For all SRV - DSP load optimization using SIMD

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

Execution Details	
Build	REL_3_6
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

#### Test Case VISIONSDK-125: VIP\_3D\_SRV\_OV10635\_913deser

##### Summary:

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

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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1184: IMI camera Linux kernel patch ADASVISION-1188: GPU application to allow Both fragment and Vertex shader to work in parallel ADASVISION-1417: Open GL support ADASVISION-1418: DRM display ADASVISION-1420: 3D surround view demo ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-1767: SGX- system_egl & system_gb layers to support imported gbm_surfaces for GPU optimization ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-887: Common Linux side Links (including SRV links) for VSDK Linux & InfoAdas ADASVISION-911: Sync on Linux Vision SDK		
<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_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-147: VIP\_3D\_SRV\_OV10635\_913deser\_without\_TDA2X\_Folder**

Summary:

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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1420: 3D surround view demo ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-911: Sync on Linux Vision SDK		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1184: IMI camera Linux kernel patch ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-887: Common Linux side Links (including SRV links) for VSDK Linux & InfoAdas ADASVISION-911: Sync on Linux Vision SDK		
Keywords:	tda2xx-evm		
Execution Details			
Build	REL_3_6		

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

## 1.2.2.Test Suite : CAL\_SRV

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

#### Test Case VISIONSDK-128: ISS\_2D\_SRV\_960/964deser

##### Summary:

ISS 2D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer  
or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB & 128MB

##### Preconditions:

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

Run SRV calibration UC if required 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 "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source should be OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & selected by user & Display device as HDMI 1080P	
2	Run "4CH ISS capture + ISS ISP + Simcop + Surround View (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>Requirements</u>	ADASVISION-1396: 4ch 2D surround view with OV10640 Bayer sensors ADASVISION-1579: low cost surround view with TDA3x		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_qualification m_iss		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

**Test Case VISIONSDK-131: ISS\_3D\_SRV\_960/964deser**Summary:

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 / TIDA AR143 with 960/964 deserializer  
or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB &amp; 128MB

Preconditions:

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

Run SRV calibration UC if required 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 "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"  & Display Output as HDMI 1080P	Capture Source should be  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected & selected by user  & Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		

Requirements

ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment  
 ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters  
 ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table  
 ADASVISION-1071: TDA3x 3D SRV : Boot time optimization  
 ADASVISION-1087: Support synchronization of camera in UB964  
 ADASVISION-1090: Update TI logo  
 ADASVISION-1257: AR0143 Sensor Support  
 ADASVISION-1295: Display Link support for various input data formats  
 ADASVISION-1298: Display Link - Progressive mode display  
 ADASVISION-1300: Display Link - Video window positioning support  
 ADASVISION-1304: Display Link - Display Multi instance support  
 ADASVISION-1306: Display Link - HDMI display support  
 ADASVISION-1307: Display Link - Support for standard display resolutions  
 ADASVISION-1308: Display Link - support for custom resolutions  
 ADASVISION-1309: Display Link - Blending support of Grpx and Video planes  
 ADASVISION-1310: Display Link - Blending support for Video planes  
 ADASVISION-1311: Display Link - Color keying support  
 ADASVISION-1312: Display Link - Set back Ground Color of VENC  
 ADASVISION-1317: Display Link - Transparency Color Key Selection support  
 ADASVISION-1318: Display Link - VENC section  
 ADASVISION-1324: multi sensors support  
 ADASVISION-1325: support LVDS capture  
 ADASVISION-1326: Support OV10640 Raw/Bayer sensors  
 ADASVISION-1456: ISS capture - mode  
 ADASVISION-1457: ISS capture - interface  
 ADASVISION-1458: ISS capture - CSI2 mode  
 ADASVISION-1459: ISS capture - resolution  
 ADASVISION-1461: ISS capture - packing  
 ADASVISION-1466: ISS multi-channel capture  
 ADASVISION-1467: ISS M2M -ISP - GLBCE selection  
 ADASVISION-1468: ISS M2M -ISP - resizer  
 ADASVISION-1469: ISS M2M -ISP - output dataformat

	ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1471: ISS M2M -ISP - NF ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1474: ISS M2M -ISP multiple instance ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC selection ADASVISION-1478: ISS M2M (LDC + VTNF) - LDC data format ADASVISION-1479: ISS M2M (LDC + VTNF) - VTNF data format ADASVISION-1480: ISS M2M (LDC + VTNF) - LDC create time config ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config ADASVISION-1482: ISS M2M (LDC + VTNF) - general ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1487: ISS M2M RSZ - multi-instance ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M ADASVISION-1489: ISS M2M RSZ - multi-CH ADASVISION-1579: low cost surround view with TDA3x ADASVISION-1606: Algo Link DeWarp for multiple channel LDC correction. ADASVISION-1621: ISS: Capture Link & M2M ISP : Support MIPI RAW 12 dataformat ADASVISION-1643: ISP Based SRV : Split LUT's ADASVISION-1644: ISP Based SRV: Configurable blend seam angle ADASVISION-1645: ISP Based SRV: Configurable blend seam start point ADASVISION-1647: ISP Based SRV: Compression of LUT's ADASVISION-1684: ISP Based SRV: Updated interface of Mesh Generation Tool ADASVISION-1685: ISP Based SRV: Parametric transition between view points ADASVISION-1686: ISP Based SRV: Adaptive bowl support on LDC Surroundview ADASVISION-1687: ISP Based SRV: Compression and reorganization of V2W Table(s) ADASVISION-1688: ISP Based SRV: Generating Car Box Edges/view ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px ADASVISION-1709: TDA3x SRV: Add multi camera harmonization ADASVISION-1786: SerDes cleanup for ISS sensor drivers ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-889: 3D SRV on TDA3x "Enhancements" ADASVISION-932: TDA3x 3D SRV on 128MB memory map ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_qualification
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-133: ISS\_3D\_SRV\_960/964deser\_360\_transition**Summary:

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer  
 or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required 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	Capture Source should be  OV10640 Sensor for SV - IMI (TDA3x ONLY) or	

	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected & selected by user  & Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	
3	Check for 3D SRV transition	SRV transition should cover 360 degree	
4	Check User is able to Start/Stop transition Select "s" to Start/Stop transition Select "n" to change to next View Point Select "r" to change to previous View Point	On selecting "s"  Transitions should stop  On selecting "n"  Transition should happen to next view point  On selecting "r"  Transition should happen to previous view point  On selecting "s" again  Transition should start normally	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaround (Phase 1) ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table ADASVISION-1071: TDA3x 3D SRV : Boot time optimization ADASVISION-1527: API config outbound check ADASVISION-1736: Enable AEWB for all 4 Channels for ISS based 3D SRV on TDA2Px and TDA3x ADASVISION-889: 3D SRV on TDA3x "Enhancements" ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR	
<u>Keywords:</u>		tda3xx-evm tda3xx_rvp c_integration	
<b>Execution Details</b>			
Build		REL_3_6	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-134: ISS\_3D\_SRV\_960/964deser\_Dump\_Frames**Summary:

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer  
 or OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN  
 Run SRV calibration UC if required 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 "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"  & Display Output as HDMI 1080P	Capture Source should be  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected & selected by user  & Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	
3	Select "1" to Save a Captured RAW frame from channel 0 (Will be saved in DDR)  Select "2" to Save a DeWarp Output Frame (Will be saved in DDR)  Select "3" to Save ISP output frames (Will be saved in MMC/SD : All channels)  Select "d" to Save Display Frame to MMC/SD card	On selecting "1"  RAW frame from channel 0 should be saved in DDR  On selecting "2"  DeWarp Output Frame should be saved in DDR  On selecting "3"  ISP output frames should be saved in MMC/SD : All channels  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>Requirements</u>	ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaround (Phase 1) ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table ADASVISION-1071: TDA3x 3D SRV : Boot time optimization ADASVISION-1542: Algorithm Link Support (Framework and Skeleton portion) ADASVISION-1543: Algorithm Link Support for all CPU cores ADASVISION-1544: Algorithm Link Support Prioritization ADASVISION-1545: Algorithm Link Support Multiple instantiation ADASVISION-1546: Algorithm Link Support Multiple input and output queues ADASVISION-1547: Algorithm Link Support Multiple input channels ADASVISION-1548: Algorithm Link Support Out of order release of input and output buffers ADASVISION-1549: Algorithm Link Support Memory allocations ADASVISION-1550: Algorithm Link Support DSP subsystem DMA resource allocations ADASVISION-1551: Algorithm Link Support EVE subsystem DMA resource allocations ADASVISION-1552: Algorithm Link Support System DMA resource allocations ADASVISION-1553: Algorithm Link Support In place computation support ADASVISION-1554: Algorithm Link Support Non-In place computation support ADASVISION-1555: Algorithm Link Support Multiple Algos ADASVISION-1556: Algorithm Link Support Alg Configurations ADASVISION-889: 3D SRV on TDA3x "AcA" Enhancements ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

**Test Case VISIONSDK-135: ISS\_3D\_2D\_SRV\_960/964deser**Summary:

ISS 2D + 3D SRV UC

Input : IMI OV10640 / TIDA AR140 / TIDA AR143 with 960/964 deserializer

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required 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 "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"  & Display Output as HDMI 1080P	Capture Source should be  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected & selected by user  & Display device as HDMI 1080P	
2	Run "3D + 2D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	

Execution type: AutomatedEstimated exec. duration (sec): 60.00Priority: Medium

<u>Requirements</u>	ADASVISION-1398: IPC between M4s ADASVISION-1399: IPC between DSPs ADASVISION-1402: IPC between M4 & DSP ADASVISION-1403: IPC between M4 & EVE ADASVISION-1405: IPC between DSP & EVE ADASVISION-1410: shall support link sendcmd across all cores ADASVISION-1466: ISS multi-channel capture ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1474: ISS M2M -ISP multiple instance ADASVISION-1475: ISS M2M - H3A ADASVISION-1476: ISS M2M sub-frame ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1487: ISS M2M RSZ - multi-instance ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M ADASVISION-1489: ISS M2M RSZ - multi-CH ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-white balance using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1493: Algorithm Link ISS 2A - multi-CH mode of operation for H3A for surround view cameras ADASVISION-1503: ESM support ADASVISION-1504: DAP MPU support ADASVISION-1518: Synchronization of frames across multiple channels
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	ADASVISION-1519: duplication of output ADASVISION-1520: Merging of multiple outputs ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px ADASVISION-882: 2D+3D SRV on TDA3x
<b>Keywords:</b>	tda3xx-evm tda3xx_rvp c_regression c_stress c_qualification c_stability m_iss m_algorithm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

#### Test Case VISIONSDK-144: ISS\_3D\_SRV\_960/964deser\_without\_TDA3X\_Folder

##### Summary:

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

##### Preconditions:

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 "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source should be OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & selected by user & Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	It throws error	
<b>Execution type:</b>	Manual		
<b>Estimated exec. duration (sec):</b>			
<b>Priority:</b>	Medium		
<b>Requirements</b>	ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaround (Phase 1) ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table ADASVISION-1071: TDA3x 3D SRV : Boot time optimization ADASVISION-1167: Error handling requirements ADASVISION-1526: Error handling ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR		
<b>Keywords:</b>	tda3xx-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		

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

#### Test Case VISIONSDK-317: ISS\_1MP\_3D\_SRV\_with\_GPU\_960/964deser\_L

##### Summary:

ISS 3D SRV UC supported on TDA2Px linux

Input : IMI OV10640 / TIDA AR140 with 960/964 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 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	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH ISS Capture + ISP + 3DSRV + SGX + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

**Requirements**

ADASVISION-1188: GPU application to allow Both fragment and Vertex shader to work in parallel  
 ADASVISION-1466: ISS multi-channel capture  
 ADASVISION-1467: ISS M2M -ISP - GLBCE selection  
 ADASVISION-1468: ISS M2M -ISP - resizer  
 ADASVISION-1469: ISS M2M -ISP - output dataformat  
 ADASVISION-1470: ISS M2M -ISP - input data format  
 ADASVISION-1471: ISS M2M -ISP - NF  
 ADASVISION-1472: ISS M2M -ISP - WDR modes  
 ADASVISION-1473: ISS M2M -ISP - resizer  
 ADASVISION-1474: ISS M2M -ISP multiple instance  
 ADASVISION-1475: ISS M2M - H3A  
 ADASVISION-1476: ISS M2M sub-frame  
 ADASVISION-1483: ISS M2M RSZ - resizer  
 ADASVISION-1484: ISS M2M RSZ - output dataformat  
 ADASVISION-1485: ISS M2M RSZ - input data format  
 ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc)  
 ADASVISION-1487: ISS M2M RSZ - multi-instance  
 ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M  
 ADASVISION-1489: ISS M2M RSZ - multi-CH  
 ADASVISION-1679: Support for Reading DCC profile from Linux filesystem  
 ADASVISION-830: For all SRV - DSP load optimization using SIMD

Keywords: tda2px-evm

##### Execution Details

Build: REL\_3\_6

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

#### Test Case VISIONSDK-321: ISS\_3D\_SRV\_960/964deser\_Different\_Output\_resolution

##### Summary:

## ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB &amp; 128MB

Preconditions:

Ensure TDA3x folder present in SD card with CHARTPOS,CARIMG,V2W &amp; LENS.BIN

Using Mesh generation tool generate V2W with resolution same as set in UC

Run SRV calibration UC if required 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	Change output resolution for 3D SRV UC & build	User should be able to build for different resolution than default	
2	Go to System Settings  Select Capture Source as  "OV10640 Sensor for SV - IMI (TDA3x ONLY)"  or  "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"  & Display Output as HDMI 1080P	Capture Source should be  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected & selected by user  & Display device as HDMI 1080P	
3	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	

Execution type: AutomatedEstimated exec. duration (sec): 60.00Priority: MediumRequirements

ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaround (Phase 1)  
 ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment  
 ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters  
 ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table  
 ADASVISION-1071: TDA3x 3D SRV : Boot time optimization  
 ADASVISION-1466: ISS multi-channel capture  
 ADASVISION-1467: ISS M2M -ISP - GLBCE selection  
 ADASVISION-1468: ISS M2M -ISP - resizer  
 ADASVISION-1469: ISS M2M -ISP - output dataformat  
 ADASVISION-1470: ISS M2M -ISP - input data format  
 ADASVISION-1472: ISS M2M -ISP - WDR modes  
 ADASVISION-1473: ISS M2M -ISP - resizer  
 ADASVISION-1474: ISS M2M -ISP multiple instance  
 ADASVISION-1475: ISS M2M - H3A  
 ADASVISION-1483: ISS M2M RSZ - resizer  
 ADASVISION-1484: ISS M2M RSZ - output dataformat  
 ADASVISION-1485: ISS M2M RSZ - input data format  
 ADASVISION-1487: ISS M2M RSZ - multi-instance  
 ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M  
 ADASVISION-1489: ISS M2M RSZ - multi-CH  
 ADASVISION-1579: low cost surround view with TDA3x  
 ADASVISION-1606: Algo Link DeWarp for multiple channel LDC correction.  
 ADASVISION-1621: ISS: Capture Link & M2M ISP : Support MIPI RAW 12 dataformat  
 ADASVISION-1643: ISP Based SRV : Split LUT's  
 ADASVISION-1644: ISP Based SRV: Configurable blend seam angle  
 ADASVISION-1645: ISP Based SRV: Configurable blend seam start point  
 ADASVISION-1647: ISP Based SRV: Compression of LUT's  
 ADASVISION-1684: ISP Based SRV: Updated interface of Mesh Generation Tool  
 ADASVISION-1685: ISP Based SRV: Parametric transition between view points  
 ADASVISION-1686: ISP Based SRV: Adaptive bowl support on LDC Surroundview  
 ADASVISION-1687: ISP Based SRV: Compression and reorganization of V2W Table(s)

	ADASVISION-1688: ISP Based SRV: Generating Car Box Edges/view ADASVISION-1715: [TDA3x 3D SRV]: Add support for Output Resolution change ADASVISION-1761: [TDA3x 3D SRV] Update Mesh tool for output resolution change ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-889: 3D SRV on TDA3x "Enhancements" ADASVISION-932: TDA3x 3D SRV on 128MB memory map ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR
<b>Keywords:</b>	tda3xx-evm tda3xx_rvp c_qualification
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

### Test Case VISIONSDK-323: ISS\_2MP\_3D\_SRV\_with\_OV2775\_IMX390\_Fusion\_Board\_L

#### Summary:

ISS 3D SRV UC supported on TDA2Px linux

Input : OV2775 / IMX390 with Fusion board

Output : HDMI 1080P

#### Preconditions:

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

For 2MP SRV to work, build with INPUT\_720P = 0

Run SRV calibration UC if required 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	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH ISS Capture + ISP + 3DSRV + SGX + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	

**Execution type:** Automated

**Estimated exec. duration (sec):** 60.00

**Priority:** Medium

#### Requirements

ADASVISION-1045: 2MP SRV demo  
 ADASVISION-1047: 4/6 camera capture and display with Fusion board and TDA2x+ using PHYs (Phy1 and Phy2)  
 ADASVISION-1246: OV2775 2MP sensor support  
 ADASVISION-1466: ISS multi-channel capture  
 ADASVISION-1467: ISS M2M -ISP - GLBCE selection  
 ADASVISION-1468: ISS M2M -ISP - resizer  
 ADASVISION-1469: ISS M2M -ISP - output dataformat  
 ADASVISION-1470: ISS M2M -ISP - input data format  
 ADASVISION-1471: ISS M2M -ISP - NF  
 ADASVISION-1472: ISS M2M -ISP - WDR modes  
 ADASVISION-1473: ISS M2M -ISP - resizer  
 ADASVISION-1474: ISS M2M -ISP multiple instance  
 ADASVISION-1475: ISS M2M - H3A  
 ADASVISION-1476: ISS M2M sub-frame  
 ADASVISION-1483: ISS M2M RSZ - resizer  
 ADASVISION-1484: ISS M2M RSZ - output dataformat  
 ADASVISION-1485: ISS M2M RSZ - input data format  
 ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc)  
 ADASVISION-1487: ISS M2M RSZ - multi-instance  
 ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M  
 ADASVISION-1489: ISS M2M RSZ - multi-CH

	ADASVISION-1676: Fusion board bring-up and enable 2MP SRV with TDA2Px ADASVISION-1680: TIDA1130 (OV2775) IQ Tuning ADASVISION-1681: IMX390 Sensor Driver and basic IQ Tuning ADASVISION-1764: IMX390 Sensor IQ Tuning ADASVISION-830: For all SRV - DSP load optimization using SIMD
<b>Keywords:</b>	tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

### Test Case VISIONSDK-322: ISS\_1MP\_3D\_SRV\_with\_GPU\_960/964deser\_4CH\_AEWB\_L

#### Summary:

ISS 3D SRV UC supported on TDA2Px linux

Input : IMI OV10640 / TIDA AR140 with 960/964 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 LUT.BIN

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

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

Aewb is enabled for all 4 channel

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH ISS Capture + ISP + 3DSRV + SGX + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	
<b>Execution type:</b>	Automated		
<b>Estimated exec. duration (sec):</b>	60.00		
<b>Priority:</b>	Medium		
<b>Requirements</b>	ADASVISION-1466: ISS multi-channel capture ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1471: ISS M2M -ISP - NF ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1474: ISS M2M -ISP multiple instance ADASVISION-1475: ISS M2M - H3A ADASVISION-1476: ISS M2M sub-frame ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1487: ISS M2M RSZ - multi-instance ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M ADASVISION-1489: ISS M2M RSZ - multi-CH ADASVISION-1736: Enable AEWB for all 4 Channels for ISS based 3D SRV on TDA2Px and TDA3x ADASVISION-830: For all SRV - DSP load optimization using SIMD		
<b>Keywords:</b>	tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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 : 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>Requirements</u>	ADASVISION-1165: AVB Ethernet based SRV ADASVISION-1261: Performance tuning for IVAHD codec in system ADASVISION-1283: VIP Capture Link to support DSS write back capture ADASVISION-1319: Display DSS write back Link ADASVISION-1334: IVA Decode Link - Multichannel MJPEG decode ADASVISION-1336: IVA Decode Link - Multichannel H264 decode ADASVISION-1337: IVA Decode Link - Support various Decode resolutions ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates ADASVISION-1362: AVB Rx Link - Packet reception & multi-channel support ADASVISION-1363: AVB Rx Link - frame level Notification ADASVISION-1364: AVB Rx Link - Sub-frame level Notification ADASVISION-1365: AVB Rx Link - Interoperability ADASVISION-1366: AVB Rx Link - Performance ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1394: 4CH AVB Capture + Decode +Surround View (DSPx) + Display ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1452: IVA Encode Link Performance ADASVISION-1453: IVA Encode Link support Subframe/Slice based Encoding ADASVISION-1454: IVA Encode Link support Error-concealment		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm		

	tda2ex-entry tda2px-evm c_regression c_stress c_stability
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### Test Case VISIONSDK-261: AVB\_4CH\_NW\_Capture\_SRV\_AVBTx

#### Summary:

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

<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 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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

#### Requirements

ADASVISION-1165: AVB Ethernet based SRV  
 ADASVISION-1261: Performance tuning for IVAHD codec in system  
 ADASVISION-1264: DSS M2M link in VSDK to support overlay write back  
 ADASVISION-1334: IVA Decode Link - Multichannel MJPEG decode  
 ADASVISION-1336: IVA Decode Link - Multichannel H264 decode  
 ADASVISION-1337: IVA Decode Link - Support various Decode resolutions  
 ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates  
 ADASVISION-1339: IVA Decode Link - Performance  
 ADASVISION-1340: IVA Decode Link - Subframe/Slice based decoding  
 ADASVISION-1341: IVA Decode Link - Error-concealment  
 ADASVISION-1362: AVB Rx Link - Packet reception & multi-channel support

	ADASVISION-1363: AVB Rx Link - frame level Notification ADASVISION-1364: AVB Rx Link - Sub-frame level Notification ADASVISION-1365: AVB Rx Link - Interoperability ADASVISION-1366: AVB Rx Link - Performance ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1394: 4CH AVB Capture + Decode +Surround View (DSPx) + Display ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1453: IVA Encode Link support Subframe/Slice based Encoding ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1494: DSS M2M RSZ - resizer ADASVISION-1495: DSS M2M RSZ - output dataformat ADASVISION-1496: DSS M2M RSZ - resizer input pipe selection ADASVISION-1497: DSS M2M RSZ - input data format ADASVISION-1498: DSS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1499: DSS M2M RSZ - multi-instance ADASVISION-1500: DSS M2M RSZ - multi-instance with Display link ADASVISION-1501: DSS M2M RSZ - multi-CH support
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_iva
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

## 1.2.4.Test Suite : SRV\_Calibration

Test Case VISIONSDK-137: SRV_Calibration_UC_auto_calibration			
<u>Summary:</u> 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)			
<u>Preconditions:</u> 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>Requirements</u>	ADASVISION-1762: SRV Auto calibration - auto slection of ROI for Surround View (1MB Vs 2MB) ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D ADASVISION-999: Performance: Complex algorithm should work on shadowed buffers		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_qualification		
<b>Execution Details</b>			
Build	REL_3_6		
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)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	

	depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	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>Requirements</u>		ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-984: Calibration: Allow to pass a parameter where all the generated files get read from/written ADASVISION-999: Performance: Complex algorithm should work on shadowed buffers	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build		REL_3_6	
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 observe	
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>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
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>Requirements</u>	ADASVISION-1601: SD card file system support with VSDK		

	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D
<b>Keywords:</b>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

#### 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

#:	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 "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 (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build		REL_3_6	
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>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_6
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 : Adaptive\_Bowl

<b>Test Case VISIONSDK-326: ISS_2MP_3D_SRV_with_OV2775_IMX390_Fusion_Board_Change_Bowl_Position</b>			
<u>Summary:</u>			
ISS 3D SRV UC supported on TDA2Px linux			
Input : OV2775 / IMX390 with Fusion board			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN			
For 2MP SRV to work, build with INPUT_720P = 0			
Run SRV calibration UC if required 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	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH ISS Capture + ISP + 3DSRV + SGX + Display" UC	Display must come up and no buffer drops should be observed  All the details in the scene should be visible. Noise levels should be very low.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1045: 2MP SRV demo ADASVISION-1082: Dynamic bowl creation support in 3D Surround View on TDA2x and TDA2x+ ADASVISION-1246: OV2775 2MP sensor support ADASVISION-1466: ISS multi-channel capture ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1471: ISS M2M -ISP - NF ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1474: ISS M2M -ISP multiple instance ADASVISION-1475: ISS M2M - H3A ADASVISION-1476: ISS M2M sub-frame ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1487: ISS M2M RSZ - multi-instance ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M ADASVISION-1489: ISS M2M RSZ - multi-CH ADASVISION-1676: Fusion board bring-up and enable 2MP SRV with TDA2Px ADASVISION-1680: TIDA1130 (OV2775) IQ Tuning ADASVISION-1681: IMX390 Sensor Driver and basic IQ Tuning ADASVISION-1691: Adaptive Bowl SRV: Add Ultrasonic drivers ADASVISION-1870: Adaptive 3D SRV - enhancements ADASVISION-830: For all SRV - DSP load optimization using SIMD		
<u>Keywords:</u>	tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		

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

### 1.3.Test Suite : Mono\_Cam

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### 1.3.1.Test Suite : VIP

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

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

###### Summary:

Capture Display UC

Input : OV10635

Output : HDMI 720P

###### 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 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 observe	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements

ADASVISION-1279: VIP Capture Link to support Sensor capture  
 ADASVISION-1284: VIP Capture Link to support Non-mux Discrete sync Hsync style capture modes  
 ADASVISION-1285: VIP Capture Link to support Non-mux Discrete sync ACTVID style capture modes  
 ADASVISION-1288: VIP Capture Link to support Progressive mode capture  
 ADASVISION-1291: VIP Capture Link to support Cropping of output video  
 ADASVISION-1293: VIP Capture Link - Capture HW configuration  
 ADASVISION-1295: Display Link support for various input data formats  
 ADASVISION-1298: Display Link - Progressive mode display  
 ADASVISION-1299: Display Link - Inline scaling support in display  
 ADASVISION-1306: Display Link - HDMI display support  
 ADASVISION-1307: Display Link - Support for standard display resolutions  
 ADASVISION-1311: Display Link - Color keying support  
 ADASVISION-1312: Display Link - Set back Ground Color of VENC  
 ADASVISION-1317: Display Link - Transparency Color Key Selection support  
 ADASVISION-1318: Display Link - VENC section  
 ADASVISION-1322: Support OV10635 video sensors  
 ADASVISION-1329: Shall support multiple display devices - HDMI (on-chip) & LCD displays  
 ADASVISION-1627: DSS Link: support override the input data format of the link.

Keywords:

tda2xx-evm  
 tda2ex-evm  
 tda3xx-evm  
 tda2ex-entry  
 tda2px-evm

###### Execution Details

Build REL\_3\_6

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

##### 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 observe	
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	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements

ADASVISION-1090: Update TI logo  
 ADASVISION-1274: VIP Capture Link to support Single channel capture  
 ADASVISION-1279: VIP Capture Link to support Sensor capture  
 ADASVISION-1281: VIP Capture Link -VIP capture with Dynamic output resolution change will not be supported  
 ADASVISION-1284: VIP Capture Link to support Non-mux Discrete sync Hsync style capture modes  
 ADASVISION-1285: VIP Capture Link to support Non-mux Discrete sync ACTVID style capture modes  
 ADASVISION-1287: VIP Capture Link to support 8 bit, 16bit & 24bit Capture bus width  
 ADASVISION-1288: VIP Capture Link to support Progressive mode capture  
 ADASVISION-1298: Display Link - Progressive mode display  
 ADASVISION-1301: Display Link - Dynamic resolution change of input video  
 ADASVISION-1303: Display Link - Dynamic output image resolution change  
 ADASVISION-1306: Display Link - HDMI display support  
 ADASVISION-1309: Display Link - Blending support of Grpx and Video planes  
 ADASVISION-1310: Display Link - Blending support for Video planes  
 ADASVISION-1311: Display Link - Color keying support  
 ADASVISION-1312: Display Link - Set back Ground Color of VENC  
 ADASVISION-1318: Display Link - VENC section  
 ADASVISION-1322: Support OV10635 video sensors  
 ADASVISION-1329: Shall support multiple display devices - HDMI (on-chip) & LCD displays  
 ADASVISION-1381: 1CH VIP capture + Display  
 ADASVISION-1429: Capture + Display generic usecase using OV10640  
 ADASVISION-1529: Multiple heap support  
 ADASVISION-1530: Cache configuration  
 ADASVISION-1531: Memory config  
 ADASVISION-1532: External Memory allocation  
 ADASVISION-1533: Internal memory allocation from OCMC  
 ADASVISION-1534: Internal memory allocation from DSP L2 SRAM at create time only, no run time allocation and de-alloc  
 ADASVISION-1535: Internal memory allocation from DSP L1 SRAM  
 ADASVISION-1581: TDA2Ex - shall support single channel capture  
 ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4  
 ADASVISION-1604: Support sensor frame work

Keywords:

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_6
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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

##### Requirements

ADASVISION-1407: vision SDK with Linux on A15  
 ADASVISION-1411: shall support IPC links on A15 linux  
 ADASVISION-1412: support links & chain on Linux  
 ADASVISION-1413: support processing Links on Linux  
 ADASVISION-1414: support chains (usecases) on Linux  
 ADASVISION-1415: Resource sharing between Linux and other CPUs  
 ADASVISION-1416: Linux boot loader  
 ADASVISION-1419: VSDK Linux support simple capture + display  
 ADASVISION-1424: Basic board configuration bringup using u-boot/Linux  
 ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK  
 ADASVISION-1581: TDA2Ex - shall support single channel capture  
 ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4  
 ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display  
 ADASVISION-1601: SD card file system support with VSDK  
 ADASVISION-1604: Support sensor frame work  
 ADASVISION-831: VSDK Linux - Display device & sensors configure from M4/Bios with a dedicated I2C  
 ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex  
 ADASVISION-99: Splitting of header files required for InfoADAS

Keywords:  
 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_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**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 should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Assert with sensor initialization fails	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1167: Error handling requirements ADASVISION-1526: Error handling		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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****Test Case VISIONSDK-6: VIP\_Capture\_FrameCopy\_A15\_Display**Summary:

Capture 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

#:	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 + 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>Requirements</u>	ADASVISION-1384: 1CH VIP capture + Alg Frame Copy (A15) + Display		

	ADASVISION-1552: Algorithm Link Support System DMA resource allocations ADASVISION-1554: Algorithm Link Support Non-In place computation support ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins)
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**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 should 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>Requirements</u>	ADASVISION-1382: 1CH VIP capture + Alg Frame Copy (DSP1) + Display ADASVISION-1550: Algorithm Link Support DSP subsystem DMA resource allocations ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins) ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4		
<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_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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

#:	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 + 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>Requirements</u>	ADASVISION-1383: 1CH VIP capture + Alg Frame Copy (EVE1)+ Display ADASVISION-1551: Algorithm Link Support EVE subsystem DMA resource allocations ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins)		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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

#:	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 + 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>Requirements</u>	ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		

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

**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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements  
 ADASVISION-178: EVE loader update to use SBL lib and PM lib  
 ADASVISION-890: EVE loader should use SBL lib and PM lib for loading application images and clock configuration  
 ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex

Keywords:  
 tda2xx-evm  
 tda2px-evm

**Execution Details**

Build REL\_3\_6

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

**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

<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 + 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	

Execution type: Manual

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements  
 ADASVISION-1407: vision SDK with Linux on A15

	ADASVISION-1411: shall support IPC links on A15 linux ADASVISION-1412: support links & chain on Linux ADASVISION-1413: support processing Links on Linux ADASVISION-1414: support chains (usecases) on Linux ADASVISION-1415: Resource sharing between Linux and other CPUs ADASVISION-886: Enable all connector links for VSDK Linux ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex
<b>Keywords:</b>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_connector_links
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

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

<b>Test Case VISIONSDK-168: VIP_Capture_SubFrameCopy_EVE1_Display</b>			
<b>Summary:</b>			
Capture Sub Frame Copy Display UC with EVE1			
Input : OV10635			
Output : HDMI 1080P			
<b>Preconditions:</b>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<b>#:</b>	<b>Step actions:</b>	<b>Expected Results:</b>	<b>Execution Status:</b>
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 + SubFrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<b>Execution type:</b>	Automated		
<b>Estimated exec. duration (sec):</b>	60.00		
<b>Priority:</b>	Medium		
<b>Requirements</b>	ADASVISION-1292: VIP Capture Link to support Slice/sub-frame wise capture		
<b>Keywords:</b>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<b>Execution Result:</b>	<b>Passed</b>		
<b>Execution Mode:</b>	<b>Manual</b>		
<b>Execution duration (sec):</b>			

### 1.3.1.4.Test Suite : VIP\_Capture\_IPC\_Display

<b>Test Case VISIONSDK-230: VIP_Capture_IPC_Display_Single_core</b>	
<b>Summary:</b>	
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	

Execution type: ManualEstimated exec. duration (sec):Priority: Medium

Requirements

ADASVISION-1398: IPC between M4s  
 ADASVISION-1399: IPC between DSPs  
 ADASVISION-1400: IPC between EVEs  
 ADASVISION-1401: IPC between M4 & A15  
 ADASVISION-1402: IPC between M4 & DSP  
 ADASVISION-1403: IPC between M4 & EVE  
 ADASVISION-1404: IPC between DSP & A15  
 ADASVISION-1405: IPC between DSP & EVE  
 ADASVISION-1406: IPC between EVE & A15

Keywords:

tda2xx-evm  
 tda2ex-evm  
 tda3xx-evm  
 tda2ex-entry  
 tda2px-evm  
 m\_ipc

**Execution Details**

Build REL\_3\_6

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**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 -&gt; DSP1 -&gt; IPU1\_1 -&gt; DSP2 -&gt; IPU1\_0

IPU1\_0 -&gt; EVE1 -&gt; DSP1 -&gt; A15\_0 -&gt; DSP1 -&gt; IPU1\_0

IPU1\_0 -&gt; EVE1 -&gt; DSP1 -&gt; A15\_0 -&gt; 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

#:	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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1398: IPC between M4s ADASVISION-1399: IPC between DSPs ADASVISION-1400: IPC between EVEs ADASVISION-1401: IPC between M4 & A15 ADASVISION-1402: IPC between M4 & DSP ADASVISION-1403: IPC between M4 & EVE ADASVISION-1404: IPC between DSP & A15 ADASVISION-1405: IPC between DSP & EVE ADASVISION-1406: IPC between EVE & A15 ADASVISION-1410: shall support link sendcmd across all cores		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

<b>Test Case VISIONSDK-167: VIP_Capture_Color_To_Gray_Display</b>			
<u>Summary:</u>			
Single Cam Capture Color to Gray 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			
#:	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	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1553: Algorithm Link Support In place computation support ADASVISION-1558: Support Sample Algorithm Link (Color to Gray Plug-Ins) with inplace buffer processing	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm	

	tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

<b>Test Case VISIONSDK-189: VIP_Capture_VPE_Display</b>			
<u>Summary:</u>			
Single Cam Capture VPE 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 VPE 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>Requirements</u>	ADASVISION-1369: VPE link to support scaling of input video ADASVISION-1370: VPE link to support de-interlacing ADASVISION-1371: VPE link to support multiple output queues ADASVISION-1372: VPE link to support Multi instance ADASVISION-1373: VPE link to support input type progressive ADASVISION-1374: VPE link to support various Input Data Formats ADASVISION-1375: VPE link to support various output data format ADASVISION-1376: VPE link to support De-interlaced enable/disable ADASVISION-1377: VPE link to support input resolution change ADASVISION-1378: VPE link to support output resolution change ADASVISION-1379: VPE link to support frame rate down sampling		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_vpe		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.1.7.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

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 + 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>Requirements</u>	ADASVISION-1385: 1CH VIP capture + Edge Detect (EVE1) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-10: VIP\_Capture\_DOE\_1Pyramid\_Display**Summary:

VIP Capture DOE Display UC with 1 Pyramid

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 + Dense Optical Flow (EVE1) + 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>Requirements</u>	ADASVISION-1386: 1CH HDMI capture + Dense Optical Flow (EVE1) + Display ADASVISION-1554: Algorithm Link Support Non-In place computation support		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-11: VIP\_Capture\_DOF\_2Pyramid\_Display**Summary:

VIP Capture DOF Display UC with 2 Pyramid

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 + Dense Optical Flow (EVEEx) + 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>Requirements</u>	ADASVISION-1386: 1CH HDMI capture + Dense Optical Flow (EVEEx) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**1.3.1.8.Test Suite : VIP\_Capture\_Encode\_Decode\_Display****Test Case VISIONSDK-12: VIP\_Capture\_Encode\_Decode\_MJPEG\_Display**Summary:

VIP Capture Encode Decode Display UC with MJPEG 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 "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>Requirements</u>	ADASVISION-1035: Display link to support cropping feature		

	ADASVISION-1333: IVA Decode Link - MJPEG decode ADASVISION-1337: IVA Decode Link - Support various Decode resolutions ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates ADASVISION-1339: IVA Decode Link - Performance ADASVISION-1340: IVA Decode Link - Subframe/Slice based decoding ADASVISION-1341: IVA Decode Link - Error-concealment ADASVISION-1342: IVA Decode Link - Output data format YUV420SP ADASVISION-1446: IVA Encode Link support MJPEG encode ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP ADASVISION-2011: [IVA] Support for 617 MHz TDA2eex PRCM sequence
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**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	

Execution type: AutomatedEstimated exec. duration (sec): 60.00Priority: MediumRequirements

ADASVISION-1035: Display link to support cropping feature  
 ADASVISION-1261: Performance tuning for IVAHD codec in system  
 ADASVISION-1273: IVA H264 Encoder - IDR frame only configuration  
 ADASVISION-1335: IVA Decode Link - H264 decode  
 ADASVISION-1337: IVA Decode Link - Support various Decode resolutions  
 ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates  
 ADASVISION-1339: IVA Decode Link - Performance  
 ADASVISION-1340: IVA Decode Link - Subframe/Slice based decoding  
 ADASVISION-1341: IVA Decode Link - Error-concealment  
 ADASVISION-1342: IVA Decode Link - Output data format YUV420SP  
 ADASVISION-1448: IVA Encode Link support H264 encode  
 ADASVISION-1450: IVA Encode Link Support various encode resolutions  
 ADASVISION-1451: IVA Encode Link Support for multiple Bit rates  
 ADASVISION-1452: IVA Encode Link Performance  
 ADASVISION-1453: IVA Encode Link support Subframe/Slice based Encoding  
 ADASVISION-1454: IVA Encode Link support Error-concealment  
 ADASVISION-1455: IVA Encode Link support Input data format YUV420SP  
 ADASVISION-1516: Tiler memory mode shall not be supported with VSDK

<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### 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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

##### Requirements

ADASVISION-1446: IVA Encode Link support MJPEG encode  
 ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode  
 ADASVISION-1450: IVA Encode Link Support various encode resolutions  
 ADASVISION-1451: IVA Encode Link Support for multiple Bit rates  
 ADASVISION-1452: IVA Encode Link Performance  
 ADASVISION-1454: IVA Encode Link support Error-concealment  
 ADASVISION-1455: IVA Encode Link support Input data format YUV420SP  
 ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex

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

<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### 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

#:	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 + 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>Requirements</u>		ADASVISION-1261: Performance tuning for IVAHD codec in system ADASVISION-1448: IVA Encode Link support H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva	
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**1.3.1.9.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

#:	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 + 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>Requirements</u>	ADASVISION-1503: ESM support ADASVISION-1504: DAP MPU support ADASVISION-1510: DCC support
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.2.Test Suite : HDMI

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

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			
#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings  Select Capture Source as HDMI  & Display Output as HDMI	Capture Source shuld be HDMI  & Display device as HDMI	
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		
Requirements	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1286: VIP Capture Link to support Non-mux Embedded sync capture modes ADASVISION-1287: VIP Capture Link to support 8 bit, 16bit & 24bit Capture bus width ADASVISION-1288: VIP Capture Link to support Progressive mode capture ADASVISION-1296: Display Link - Display support for ARGB 16/24/32 bit data formats ADASVISION-1298: Display Link - Progressive mode display ADASVISION-1300: Display Link - Video window positioning support ADASVISION-1302: Display Link - Active video channel selection ADASVISION-1306: Display Link - HDMI display support ADASVISION-1315: Display Link - Digital Output data format with discrete sync ADASVISION-1318: Display Link - VENC section ADASVISION-1323: capture from HDMI source ADASVISION-1331: support for HDMI (off chip) via ADV chip		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_qualification c_integration		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

<b>Test Case VISIONSDK-14: HDMI_Capture_SOF_Display</b>			
<u>Summary:</u>			

## HDMI Capture SOF Display UC

Input : HDMI

Output : HDMI

Preconditions:

Verify whether display shows flow vectors of the captured input  
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) + 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>Requirements</u>	ADASVISION-1389: 1CH HDMI capture + Sparse Optical Flow (EVEx) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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>Requirements</u>	ADASVISION-1391: 1CH HDMI capture + Lane Detection (DSP+EVE) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		

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

**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

<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) + 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>Requirements</u>	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1323: capture from HDMI source ADASVISION-1331: support for HDMI (off chip) via ADV chip		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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>Requirements</u>	ADASVISION-1390: 1CH HDMI capture + Pedestrian Detection (EVE+DSP) + Display
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**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

<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) + 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>Requirements</u>	ADASVISION-1392: 1CH HDMI capture + Traffic sign detection (DSP1 + DSP2) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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>Requirements</u>	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1323: capture from HDMI source		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1555: Algorithm Link Support Multiple Algos		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm m_algorithm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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

<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) + 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>Requirements</u>	ADASVISION-1380: Support ISS based Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1542: Algorithm Link Support (Framework and Skeleton portion) ADASVISION-1543: Algorithm Link Support for all CPU cores ADASVISION-1544: Algorithm Link Support Prioritization ADASVISION-1545: Algorithm Link Support Multiple instantiation ADASVISION-1546: Algorithm Link Support Multiple input and output queues ADASVISION-1547: Algorithm Link Support Multiple input channels ADASVISION-1548: Algorithm Link Support Out of order release of input and output buffers ADASVISION-1549: Algorithm Link Support Memory allocations ADASVISION-1555: Algorithm Link Support Multiple Algos ADASVISION-1556: Algorithm Link Support Alg Configurations ADASVISION-1602: Support Image pyramid using ISS ADASVISION-1603: support for Image pyramid using VPE ADASVISION-1607: EU-NCAP demo support with TDA2X/3X		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm c_stress c_stability m_algorithm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.3.Test Suite : ISS

#### 1.3.3.1.Test Suite : ISS\_SingleCam\_Capture\_Display\_OV10640

##### Test Case VISIONSDK-47: ISS\_Capture\_OV10640\_LM

###### Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

###### Preconditions:

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 OV10640  & Display Output as HDMI 1080P	Capture Source shuld be OV10640  & Display device as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1326: Support OV10640 Raw/Bayer sensors ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1461: ISS capture - packing ADASVISION-1621: ISS: Capture Link & M2M ISP : Support MIPI RAW 12 dataformat		
Keywords:	tda3xx-evm c_qualification c_integration		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

##### Test Case VISIONSDK-318: ISS\_Capture\_OV10640\_LM\_Performance\_L

###### Summary:

Linear mode - basic ISS, performance test on TDA2Px Linux

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor

Output : HDMI 1080P

Preconditions:

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 OV10640 & Display Output as HDMI 1080P	Capture Source should be OV10640 & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed	
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Parallel capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1458: ISS capture - CSI2 mode ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M - H3A ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-white balance using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1604: Support sensor frame work		
<u>Keywords:</u>	tda2px-evm c_regression c_performance m_iss		
<b>Execution Details</b>			
Build	REL_3_6		
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 : ISS\_SingleCam\_Capture\_Display\_OV2775**

<b>Test Case VISIONSDK-248: ISS_Capture_OV2775_LM</b>			
<u>Summary:</u>			
Linear mode - basic ISS functionality test			
ISS Single channel Capture UC with OV2775			
Input : OV2775 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
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 OV2775	Capture Source should be OV2775 & Display device as HDMI 1080P	

	& Display Output as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1604: Support sensor frame work		
<u>Keywords:</u>	tda3xx-evm tda2px-evm c_stress c_qualification c_stability		
<b>Execution Details</b>			
Build	REL_3_6		
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 : ISS\_SingleCam\_Capture\_Display\_AR0143

<b>Test Case VISIONSDK-254: ISS_Capture_AR0143_LM</b>			
<u>Summary:</u>			
Linear mode - basic ISS functionality test			
ISS Single channle Capture UC with AR0143			
Input : AR0143 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
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 AR0143 & Display Output as HDMI 1080P	Capture Source shuld be AR0143 & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1604: Support sensor frame work ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px		
<u>Keywords:</u>	tda3xx-evm c_stress c_qualification c_stability		

<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-307: ISS\_dump\_frames\_various\_tap\_points**Summary:

ISS Single channle Capture UC with AR140/OV10640/IMX224

Input : AR140/OV10640/IMX224 sensor

Output : HDMI 1080P

Preconditions:

Binaries should built with NDK enabled

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 AR140/OV10640/IMX224  & Display Output as HDMI 1080P	Capture Source shuld be AR140/OV10640/IMX224  & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
3	Run DCC tool for ISS image tuning  Connect to target EVM (using IP) & dump frames from various tap-points	should be able to dump frames from various tap-points	

Execution type: Manual

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements  
 ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display  
 ADASVISION-1436: Basic Capture + ISP processing + display use case  
 ADASVISION-1511: ISS tuning tool  
 ADASVISION-1587: TDA3x ISS UC - SDK links and Utils to support static memory allocation  
 ADASVISION-1600: ISS - add various tap-points for dumping the frames  
 ADASVISION-1604: Support sensor frame work  
 ADASVISION-1671: APIs to read UB960/964/954/953 status registers and to enable test pattern

Keywords: None

<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-357: ISS\_Capture\_OV10640\_Output\_ARGB32**Summary:

ISS Capture display UC

supported on TDA3x

Input : OV10640 Sensor

Output : ARGB32 over resizer window

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	Enable use-case in test suite& build Load Testsuite binaries on TDA3xx EVM & Run	Check Logs of iss_isp_display use-case 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>Requirements</u>	ADASVISION-1927: ARGB32 output support for Iss_memResizer Link		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 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

Requirements

ADASVISION-1263: Null & NullSrc clean-up to move Networking RX/Tx functionalities to new network\_rx and network\_tx li  
ADASVISION-1522: Dummy Sink (Null Link)  
ADASVISION-1523: Dummy source (NullSrc Link)

Keywords:

tda2xx-evm  
m\_connector\_links

Execution Details

Build

REL\_3\_6

Tester

x0246581

Execution Result:

Passed

Execution Mode:

Manual

Execution duration (sec):

<b>Test Case VISIONSDK-182: NullSrc_Decompile_Display_MJPEG_Frames</b>			
<u>Summary:</u>			
Null Src Decode Display UC			
supported on TDA2x/TDA2Ex/TDA3x			
Input Data Format: MJPEG Bitstream			
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 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>Requirements</u>	ADASVISION-1523: Dummy source (NUISrc Link)
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_6
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\_Decompile\_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>Requirements</u>	ADASVISION-1523: Dummy source (NUISrc Link)		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**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

<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>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**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

<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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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>
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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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1518: Synchronization of frames across multiple channels		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
<b>Execution Details</b>			
Build	REL_3_6		
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

<b>Test Case VISIONSDK-165: VIP_Capture_Dup_Display</b>			
<u>Summary:</u>			
Single Cam Capture Dup 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 Dup 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>Requirements</u>	ADASVISION-1519: duplication of output		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.4.4.Test Suite : MergeLink

**Test Case VISIONSDK-166: VIP\_Capture\_Merge\_Display**Summary:

Single Cam Capture Merge 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 Merge 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		
Requirements	ADASVISION-1520: Merging of multiple outputs		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**1.3.4.5.Test Suite : StatisticsLogs****Test Case VISIONSDK-211: VIP\_SingleCam\_Capture\_Display\_Statistics\_Logs**Summary:

Capture Display UC

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 + 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>Requirements</u>	ADASVISION-1536: System debug logs ADASVISION-1537: Statistics logs ADASVISION-1538: latency measurement ADASVISION-1539: system loading ADASVISION-1540: DDR BW measurement ADASVISION-1541: Global timestamp ADASVISION-1563: Vision SDK Print Statistics for PM
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

Print PRCM Statistics Dpll Status

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "1" for Dpll Status	On selecting "1" should print DPLL Statistics	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1562: power managemant - Profiling Support for Actual CPU idle time ADASVISION-1563: Vision SDK Print Statistics for PM		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Temperature

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>

1	Go to System Settings -> Print PRCM Statistics  Press "2" for Temperature	On selecting "2" should print current min & max temperature on all cores	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Module Power State

#:	Step actions:	Expected Results:	Execution Status:
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>Requirements</u>	ADASVISION-1561: power mamagemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics CPU Frequency

#:	Step actions:	Expected Results:	Execution Status:
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>Requirements</u>	ADASVISION-1561: power mamagemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Peripherals Frequency

#:	Step actions:	Expected Results:	Execution Status:
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>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Prcm Register Data

#:	Step actions:	Expected Results:	Execution Status:
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>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

### 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>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 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>Requirements</u>	ADASVISION-1536: System debug logs		

	ADASVISION-1537: Statistics logs ADASVISION-1538: latency measurement ADASVISION-1539: system loading ADASVISION-1540: DDR BW measurement ADASVISION-1541: Global timestamp ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage
<b>Keywords:</b>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

### 1.3.4.6.Test Suite : FATFS

<b>Test Case VISIONSDK-228: File_IO_UC_MMCSd_IPU1_0</b>			
<b>Summary:</b>			
File IO UC using MMCSd on IPU1_0			
Read ApplImage from SD card &			
write back same to SD card			
<b>Preconditions:</b>			
Verify FATFS running IPU1_0			
Build SDK with FATFS flags enabled & NDK disabled and FATFS lib on IPU1_0			
<b>#:</b>	<b>Step actions:</b>	<b>Expected Results:</b>	<b>Execution Status:</b>
1	1. Select File IO UC from Menu	No Display  On console, Time taken to read & write should be displayed	
<b>Execution type:</b>	Automated		
<b>Estimated exec. duration (sec):</b>	60.00		
<b>Priority:</b>	Medium		
<b>Requirements</b>	ADASVISION-1524: Dummy source with file read ADASVISION-1595: Support for FAT File system with MMC/SD card. (When networking is enabled FAT FS is disabled) ADASVISION-1601: SD card file system support with VSDK ADASVISION-743: FAT FS throughput measurements and optimizations		
<b>Keywords:</b>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<b>Execution Result:</b>	<b>Passed</b>		
<b>Execution Mode:</b>	<b>Manual</b>		
<b>Execution duration (sec):</b>			

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

**Test Case VISIONSDK-277: Limp\_Home\_Mode**Summary:

Limp Home Mode 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

<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) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observed	
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  6: Show Limp Home Status  7: Switch to Limp Home Mode  8: Return to Normal Usecase Mode  x: Exit Thermal Menu	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  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>Requirements</u>	ADASVISION-1527: API config outbound check ADASVISION-1568: PM - Limp Home Mode on Vision SDK ADASVISION-1569: PM - VSDKLIMPHOME: Demonstration of Limp Home ADASVISION-1607: EU-NCAP demo support with TDA2X/3X		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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**Summary:

Capture Display UC

supported on all platforms

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 + 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	

Execution type: AutomatedEstimated exec. duration (sec): 60.00Priority: MediumRequirements ADASVISION-1199: Utility to measure time taken for a function in multi-task environment  
ADASVISION-1381: 1CH VIP capture + DisplayKeywords: tda2xx-evm  
tda2ex-evm  
tda3xx-evm  
tda2ex-entry  
tda2px-evm**Execution Details**

Build REL\_3\_6

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**1.3.4.9.Test Suite : TLFW\_verify****Test Case VISIONSDK-309: TLFW\_verification**Summary:

Verifying testlink fw

Preconditions:

staf should be running

#:	Step actions:	Expected Results:	Execution Status:
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  3. Add test cases to execute for that particular build  4. Trigger all automated test cases from test link	User should be able to trigger all automated test cases from test link  & also able to update test result for manual test cases	

	5. Execute remaining manual test cases from test link		
	6. Generate test report		
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-369: Deploy TestLink for VSDK test-case management and automation		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_6		
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>Requirements</u>	ADASVISION-1205: VSDK 3.0 restructuring ADASVISION-929: SDK FW and App separation		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_6		
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

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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		
Requirements	ADASVISION-1502: FFI (DSP CPU) - XMC ADASVISION-1505: FFI (DSP EDMA & EVE) - L3FW ADASVISION-1506: EMIF ECC support ADASVISION-1510: DCC support		
Keywords:	None		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

### 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>Requirements</u>	ADASVISION-925: Safe IPC implementation and integration with Vision SDK		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc		
<b>Execution Details</b>			
Build	REL_3_6		
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-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 (sec):</u>			

<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1137: Low latency IPC support in VSDK to reduce the CPU load and latency ADASVISION-925: Safe IPC implementation and integration with Vision SDK
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
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 : Multi\_Cam

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### 1.4.1.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>Requirements</u>	ADASVISION-1275: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1277: VIP Capture Link- VIP port Config per VIP instance in multi-VIP port mode ADASVISION-1282: VIP Capture Link to support Multi instance link support ADASVISION-1294: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1304: Display Link - Display Multi instance support ADASVISION-1306: Display Link - HDMI display support ADASVISION-1324: multi sensors support ADASVISION-1325: support LVDS capture ADASVISION-1387: 4CH LVDS VIP Capture + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Display ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1582: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4 ADASVISION-1668: Custom SWMS link to use VPE (scalar) internally to avoid DMA copy ADASVISION-897: Add single camera capture display using lvds for all platforms		
<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_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

### Test Case VISIONSDK-23: VIP\_6CH\_Capture\_Display\_OV10635\_913deser

#### Summary:

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

<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 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	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1282: VIP Capture Link to support Multi instance link support ADASVISION-1290: VIP Capture Link - Detect VIP port overflow & Reset ADASVISION-1294: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1324: multi sensors support		
<u>Keywords:</u>	tda2xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 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

<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 + SGX MOSAIC + DISPLAY" UC	Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			

<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1582: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display
<b>Execution Details</b>	
Build	REL_3_6
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 : AVB\_4CH\_Capture\_Mosaic\_Display\_AVBTx

<b>Test Case VISIONSDK-116: AVB_4CH_NW_Capture_Mosaic_Dispaly_AVBTx</b>			
<u>Summary:</u>			
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			
<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	
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"	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1261: Performance tuning for IVAHD codec in system ADASVISION-1273: IVA H264 Encoder - IDR frame only configuration ADASVISION-1334: IVA Decode Link - Multichannel MJPEG decode ADASVISION-1336: IVA Decode Link - Multichannel H264 decode ADASVISION-1337: IVA Decode Link - Support various Decode resolutions ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates ADASVISION-1339: IVA Decode Link - Performance ADASVISION-1340: IVA Decode Link - Subframe/Slice based decoding ADASVISION-1341: IVA Decode Link - Error-concealment ADASVISION-1342: IVA Decode Link - Output data format YUV420SP ADASVISION-1362: AVB Rx Link - Packet reception & multi-channel support ADASVISION-1363: AVB Rx Link - frame level Notification ADASVISION-1364: AVB Rx Link - Sub-frame level Notification ADASVISION-1365: AVB Rx Link - Interoperability ADASVISION-1366: AVB Rx Link - Performance ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1393: 4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Display ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions		

	ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP ADASVISION-1583: Shall support AVB multi-channel capture upto 4 channel
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression m_iva
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	Seect 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

#### Requirements

ADASVISION-1261: Performance tuning for IVAHD codec in system  
 ADASVISION-1273: IVA H264 Encoder - IDR frame only configuration  
 ADASVISION-1362: AVB Rx Link - Packet reception & multi-channel support  
 ADASVISION-1363: AVB Rx Link - frame level Notification  
 ADASVISION-1364: AVB Rx Link - Sub-frame level Notification  
 ADASVISION-1365: AVB Rx Link - Interoperability  
 ADASVISION-1366: AVB Rx Link - Performance

	ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1393: 4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Display ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_6
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 : SelectLink

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**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

#:	Step actions:	Expected Results:	Execution Status:
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>Requirements</u>	ADASVISION-1521: select a particular channel		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

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##### 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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1558: Support Sample Algorithm Link (Color to Gray Plug-Ins) with inplace buffer processing		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

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<b>Test Case VISIONSDK-192: VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display</b>			
<u>Summary:</u>			
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			
<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 LVDS Capture VPE Sync DMA SWMS 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>Requirements</u>	ADASVISION-1559: Sample Algorithm Link (DMA SW Mosaic Plug-Ins)		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_integration m_vpe		
<b>Execution Details</b>			
Build	REL_3_6		
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 : Radar

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

#### Summary:

Null Source Capture(SD card) Radar FFT on EVE1 Null UC

Input : AR12

Output : Null

#### Preconditions:

Input files present in SD card

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

#:	Step actions:	Expected Results:	Execution Status:
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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1255: Radar Advance frame configuration & dynamic configuration support ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1442: RADAR algorithm porting on DSP Alg link ADASVISION-1445: RADAR processing performance benchmarking ADASVISION-1570: power mamagemant - CPU IDLE ADASVISION-1571: power mamagemant - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power mamagemant - CPUIDLE: IPU Core Idle ADASVISION-1573: power mamagemant - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power mamagemant - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-1699: [RADAR] Propagate each output channel info properly in RadarProcess Link Alg Plugin ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-989: Radar data read from SD card ADASVISION-990: Radar Data output to SD Card ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input		
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

#### Summary:

Null Source Capture(SD card) Radar FFT on EVE1 Null UC

Input : AR12

Output : Null

Preconditions:

Input files present in SD card

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

#:	Step actions:	Expected Results:	Execution Status:
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	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>Requirements</u>	ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1570: power managemant - CPU IDLE ADASVISION-1571: power managemant - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power managemant - CPUIDLE: IPU Core Idle ADASVISION-1573: power managemant - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power managemant - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-989: Radar data read from SD card ADASVISION-990: Radar Data output to SD Card ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1)	No display	

	+ Null (SD/Network)" UC		
	Select Data Read/Write Mode as Network		
3	Press "P"	Check performance stats	
4	using network_ctrl tool send a diiferent parameter set	should be able to update with new parameter set	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1699: [RADAR] Propagate each output channel info properly in RadarProcess Link Alg Plugin ADASVISION-1919: Radar: Allow accepting mmwave messages from Network to translate to AWR1243 SPI commands - Base Infr ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-991: Radar data input and output via Ethernet		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_6		
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	No display	
	Select Data Read/Write Mode as Network		
3	Run network_rx to dump files	Should be able to dump frmaes	
4	Using network_ctrl tool send a different parameter set	should be able to update with new parameter set	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1919: Radar: Allow accepting mmwave messages from Network to translate to AWR1243 SPI commands - Base Infr ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-991: Radar data input and output via Ethernet ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input		
<u>Keywords:</u>	tda2xx-evm		

	tda3xx-evm
<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-350: Radar\_AR12\_PCle\_Capture\_Null

##### Summary:

Radar AR12 PCle Capture Null UC

Input : AR12

Output : Null

Supported on : TDA2Px Linux

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2Px with Radar setup	Shoul display Main Menu	
2	Run UC	No Display	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1920: Linux Support for Radar SDK ADASVISION-1921: Radar SDK Linux - enable PCle based capture		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-352: Iss\_Capture\_Radar\_FFT\_DSP1\_Display

##### Summary:

ISS Capture Radar FFT on DSP1 Display UC

Input : ISS sensor

Output : HDMI

##### Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA2Px EVM

Debug prints will be in UART2

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2Px with Radar setup	Should display Main Menu	
2	Run usecase	Display should come up & no buffer drops should observed	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1777: Camera Radar combo usecase		
<u>Keywords:</u>	None		

<b>Execution Details</b>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-353: Tidl\_Od\_Radar\_FFT\_DSP1\_Display**
Summary:

TIDL OD Radar FFT on DSP1 Display UC

Input : File IO

Output : HDMI

Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA2Px EVM

Debug prints will be in UART2

#:	Step actions:	Expected Results:	Execution Status:
1	Boot TDA2Px with Radar setup	Should display Main Menu	
2	Run usecase	Display should come up & no buffer drops should observed	
3	Press "P"	Check performance stats	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1777: Camera Radar combo usecase		
Keywords:	None		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

## 1.6.Test Suite : Build

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## 1.6.1.Test Suite : VSDK\_Builds

<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)			
<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 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>Requirements</u>	ADASVISION-1080: TDA2Px (J6+) Support with VSDK ADASVISION-1081: J6 Entry support for VSDK ADASVISION-1095: Platform support & maintainability ADASVISION-1167: Error handling requirements ADASVISION-1348: AppImage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory maps ADASVISION-1352: Multiple platforms support ADASVISION-1354: Build profile selection ADASVISION-1355: 256MB memory map ADASVISION-1356: 1GB memory map ADASVISION-1357: 128MB memory map ADASVISION-1358: 512MB memory map ADASVISION-1359: MMU configs of different CPUs ADASVISION-1360: Platform selection ADASVISION-1361: Selective builds for following links - VPE, ISS ADASVISION-1408: shall support Bios only build ADASVISION-1409: shall support bios + Liux on A15 ADASVISION-1529: Multiple heap support ADASVISION-1530: Cache configuration ADASVISION-1531: Memory config ADASVISION-1532: External Memory allocation ADASVISION-1533: Internal memory allocation from OCMC ADASVISION-1534: Internal memory allocation from DSP L2 SRAM at create time only, no run time allocation and de-alloc ADASVISION-1535: Internal memory allocation from DSP L1 SRAM ADASVISION-1570: power mamagemant - CPU IDLE ADASVISION-1571: power mamagemant - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power mamagemant - CPUIDLE: IPU Core Idle ADASVISION-1573: power mamagemant - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power mamagemant - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1586: Static memory allocation in Vision SDK and its component		

	ADASVISION-1633: Migrate DSP CGT version of VSDK to use CGT 8.2.4 ADASVISION-1652: TDA2EX ETH SRV platform board Support with VSDK ADASVISION-1751: Support in the makefile to allow for file specific compile options ADASVISION-1857: [TDA3x-RVP] Support 1GB memory map ADASVISION-1980: Add support for the TDA2PX RVP to vision SDK ADASVISION-648: Improve the build time and build process ADASVISION-666: [BSP/STW] Removal of dynamic allocation from BSP and STW libraries ADASVISION-892: RVP support in vision SDK ADASVISION-930: PDK integration with Vision SDK. ADASVISION-955: RVP support in PSDK & VSDK
<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_6
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-250: VSDK_Linux_different_builds</b>			
<u>Summary:</u>			
VSDK Linux different configurations Build			
<u>Preconditions:</u>			
Follow Linux UG to Install release package, clone kernel,u-boot,sgx,ipumm,cmem, download filesystems (4.4 kernel)			
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  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 MAKECONFIG selected	
6	Repeat step 3 & 4	Should build successfully	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1350: CPU selection ADASVISION-1352: Multiple platforms support		

	ADASVISION-1356: 1GB memory map ADASVISION-1360: Platform selection ADASVISION-1407: vision SDK with Linux on A15 ADASVISION-1409: shall support bios + Liux on A15 ADASVISION-1597: IPU2 support in VSDK with SMP bios mode ADASVISION-1598: IPU1 SMP mode support ADASVISION-1833: PSDK Linux 3.4 migration and validation ADASVISION-648: Improve the build time and build process ADASVISION-666: [BSP/STW] Removal of dynamic allocation from BSP and STW libraries ADASVISION-884: IPUMM + vision SDK merge ADASVISION-885: Linux VSDK with IPU2 as main IPU core ADASVISION-930: PDK integration with Vision SDK. ADASVISION-935: 4.4 Kernel migration
<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_6
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-278: VSDK_KW_build</b>			
<u>Summary:</u>			
VSDK Klocwork Build			
<u>Preconditions:</u>			
Jenkin Node is up & 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>Requirements</u>	ADASVISION-1353: Static code checker Klockwork ADASVISION-1517: Static code checker MISRA-C ADASVISION-1525: Follow coding guidelines		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.6.2.Test Suite : Radar\_Builds

Test Case VISIONSDK-280: Radar_BIOS_different_builds			
Summary:			
Radar different configuartions Build			
Preconditions:			
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 (vsdk_install_path)/vision_sdk/build  & run make -s showconfig	Should dislay 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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1106: [RADAR] Add support for ALPS Hardware ADASVISION-1108: [RADAR] Support for 128 MB build by default ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1348: Applmage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory maps ADASVISION-1352: Multiple platforms support ADASVISION-1354: Build profile selection ADASVISION-1359: MMU configs of different CPUs ADASVISION-1360: Platform selection ADASVISION-1755: [RADAR] Add support for TDA2px EVM ADASVISION-1853: [RADAR] VSDK to support TDA2x cascade radar		
Keywords:	tda2xx-evm tda3xx-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster c_integration		
Attached files	<ul style="list-style-type: none"><li>• Radar Differnt Build Config : build_radar.sh</li><li>• build_radar.sh</li></ul>		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**Test Case VISIONSDK-349: Radar\_Linux\_build**Summary:

Radar Linux Build

Preconditions:

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

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 (v sdk_install_path)/vision_sdk/build  Modify Rules.mk file to  MAKECONFIG=tda2px_evm_linux_radar  & run make -s showconfig	Should display config for tda2px_evm_linux_radar	
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1920: Linux Support for Radar SDK		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_6		
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 : Release\_Process

<b>Test Case VISIONSDK-245: VSDK_Radar_release_check_list</b>			
<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	
6	Check all links in the "index.html"  Remove unwanted links	All links in the "index.html" should work properly	
7	Check all links in the "index.html"  Remove unwanted links	All links in the "index.html" should work properly	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1094: Software release process ADASVISION-1168: SW quality requirements ADASVISION-1513: Release process ADASVISION-1528: Product requirements ADASVISION-1672: [Radar] Add Radar System planner to the Release Package ADASVISION-1675: Processor SDK Vision ti.com landing page - clean-up ADASVISION-1690: Process: Update Software Integration and Test Strategy document ADASVISION-1752: [Radar] Add Radar System planner to the Release Package ADASVISION-875: Develop a How to Debug best practices document, that outlines how to rapidly load binaries, restart		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### Test Case VISIONSDK-246: VSDK\_package\_creation\_and\_installation

Summary:

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

Preconditions:

VSDK 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>Requirements</u>	ADASVISION-1096: packaging and installation ADASVISION-1512: Single installer for vision SDK ADASVISION-1514: Customer collaterals		
<u>Keywords:</u>	c_qualification		
<b>Execution Details</b>			
Build	REL_3_6		
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\_package\_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	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 with default config	Build should be success	
3	Install on Linux machine	Installation should be success	
	Check for all customer collaterals	Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc	
	& Build with default config	Build should be success	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1096: packaging and installation ADASVISION-1514: Customer collaterals ADASVISION-917: Separate packaging for Radar SDKs	
<u>Keywords:</u>		c_qualification	
<b>Execution Details</b>			
Build		REL_3_6	
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 : Boot\_Modes

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## 1.8.1.Test Suite : SD\_Boot

<b>Test Case VISIONSDK-273: Load_BIOS_Binaries_using_SD_Card</b>			
<u>Summary:</u>			
Load Binaries using SD Card			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy Appimage & MLO (opp_nom, opp_od, opp_high)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 with different OPP MLO	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1344: SD boot mode ADASVISION-1423: Basic board bringup (serial, pinmux, ddr, nand) using SBL ADASVISION-1425: Boot mode bringup		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_6		
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>Requirements</u>	ADASVISION-1344: SD boot mode		

	ADASVISION-1424: Basic board configuration bringup using u-boot/Linux ADASVISION-1425: Boot mode bringup ADASVISION-1601: SD card file system support with VSDK ADASVISION-1833: PSDK Linux 3.4 migration and validation
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification
<b>Execution Details</b>	
Build	REL_3_6
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 : QSPI\_Boot

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Test Case VISIONSDK-274: Load_Binaries_using_QSPI			
<u>Summary:</u>			
Load Binaries using QSPI			
<u>Preconditions:</u>			
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>Requirements</u>	ADASVISION-1346: QSPI boot mode ADASVISION-1347: Flashing method		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.8.3.Test Suite : NFS\_Boot

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

Summary:

Load Binaries from NFS

supported on TDA2x/TDA2Ex/TDA2Ex Entry

Preconditions:

Build & Copy u-boot, MLO & File system to SD card

Modify uenv.txt to point to filesystem from your NFS path

#:	Step actions:	Expected Results:	Execution Status:
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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1424: Basic board configuration bringup using u-boot/Linux		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

## 1.8.4.Test Suite : CCS\_Boot

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Test Case VISIONSDK-332: Load_Binaries_using_CCS			
<u>Summary:</u>			
Load Binaries using CCS			
<u>Preconditions:</u>			
Build binaries			
<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	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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	None		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster		
<b>Execution Details</b>			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			