



Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV_Test_Plan_3_6_Functional_TDA2Ex

Printed by TestLink on 03/01/2019

2017 (c) Testlink Community

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: PSDKV_Test_Plan_3_6_Functional_TDA2Ex

TDA2Ex Functional Test Plan

Will cover all functional test for tda2ex-evm

1.1.Test Suite : Network

1.1.1.Test Suite : TCP/IP

Test Case VISIONSDK-100: NW_Ctrl_cmd_echo			
<u>Summary:</u> Network Control Command "echo"			
<u>Preconditions:</u> verify that host and target can communicate and execute command accordingly Boot with SD card Make network cable connected			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC Execute "echo" command using network_ctrl.exe #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-101: NW_Ctrl_cmd_sys_reset			
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-102: NW_Ctrl_cmd_qspi_wrSummary:

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

Test Case VISIONSDK-103: NW_Ctrl_cmd_mem_rdSummary:

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

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

Test Case VISIONSDK-104: NW_Ctrl_cmd_mem_wrSummary:

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

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

Test Case VISIONSDK-105: NW_Ctrl_cmd_mem_saveSummary:

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

Test Case VISIONSDK-106: NW_Rx_DisplaySummary:

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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<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

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

Test Case VISIONSDK-109: SingleCam_Capture_NW_TxSummary:

1 Channel capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-110: MultiCam_Capture_NW_TxSummary:

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

Test Case VISIONSDK-111: SingleCam_Capture_Encode_NW_TxSummary:

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

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

1.1.2.Test Suite : TFDTP

Test Case VISIONSDK-234: NW_Rx_Display_TFDTP			
Summary:			
Network Rx Display UC using TFDTP			
Input : RAW 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 + 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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	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		
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			
<u>Summary:</u>			
Network Rx Decode Display UC using TFDTP			
Input : H264Encoded frames			
Output : HDMI 1080P			
<u>Preconditions:</u>			

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Decode + Display (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Send H264 Encode frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1135: TFDTP integration with VSDK		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-237: SingleCam_Capture_NW_Tx_TFDTP

Summary:

Single Channel capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

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

Test Case VISIONSDK-238: MultiCam_Capture_NW_Tx_TFDTP

Summary:

4 Channel VIP capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

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-239: SingleCam_Capture_Encode_NW_Tx_TFDTP

Summary:

Single Channel capture + Encode + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Encode + Network TX (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.2.Test Suite : SRV

1.2.1.Test Suite : VIP_SRV

1.2.1.1.Test Suite : 2D_SRV

Test Case VISIONSDK-124: VIP_2D_SRV_OV10635_913deser

Summary:

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

Input : OV10635 with 913/914 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS_2D.BIN

Run SRV calibration to generate PERSMAT.BIN if required

In case of TDA3x:

Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS_2D.BIN

Run SRV calibration to generate LUT.BIN if required

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

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

#:	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>	Passed
<u>Execution Mode:</u>	Manual
<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	

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

<u>Requirements</u>	ADASVISION-1275: VIP Capture Link to support Multi channel capture ADASVISION-830: For all SRV - DSP load optimization using SIMD
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm

Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<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>	Failed
<u>Execution Mode:</u>	Manual
<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-126: CSI2_2D_SRV_OV10635_964deser

Summary:

CSI2 2D SRV UC supported on TDA2Ex/TDA2Ex 17x17/TDA3x/RVP

Input : OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

In case of TDA2Ex/TDA2Ex 17x17:

Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS_2D.BIN

Run SRV calibration UC if required to generate PERSMAT.BIN

In case of TDA3x:

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 "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)" & Display Output as HDMI 1080P	Capture Source should be OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x) & Display device as HDMI 1080P	
2	Run "OV10635 & UB964 4CH CSI2 Surround View (DSP) + Display (HDMI)" 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-1076: Support 4 channels of OV10635/SAT0088 on 2 lanes of CSI2
 ADASVISION-1078: TDA2Ex: Add 2D SRV based on CSI2/OV10635/SAT0088
 ADASVISION-1131: TDA2Ex : 2D SRV Support (UB964 & 4 modules of SAT0088)
 ADASVISION-1133: Capture & Display usecase with UB9640 & 4 modules of SAT0088 on TDA2x 17x17 package
 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-995: Support of CSI input in TDA2Ex
<u>Keywords:</u>	tda2ex-evm tda2ex-entry c_regression c_qualification m_iss
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-149: CSI2_2D_SRV_OV10635_964deser_without_TDAXX_Folder

Summary:

CSI2 2D SRV UC supported on TDA2Ex/TDA2Ex 17x17/TDA3x

Input : OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

In case of TDA2Ex/TDA2Ex 17x17:

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 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)" & Display Output as HDMI 1080P	Capture Source should be OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x) & Display device as HDMI 1080P	
2	Run "OV10635 & UB964 4CH CSI2 Surround View (DSP) + Display (HDMI)" 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-1131: TDA2Ex : 2D SRV Support (UB964 & 4 modules of SAT0088) ADASVISION-995: Support of CSI input in TDA2Ex
<u>Keywords:</u>	tda2ex-evm tda2ex-entry
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.2.2.2.Test Suite : 3D_SRV

Test Case VISIONSDK-127: CSI2_3D_SRV_OV10635_964deserSummary:

CSI2 3D SRV UC supported on TDA2Ex/TDA2Ex 17x17/TDA2Px Linux

Input : OV10635 with 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 GPULUT.BIN

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

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH CSI2 CAL 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-1132: TDA2Ex : 3D SRV Support (UB964 & 4 modules of SAT0088) ADASVISION-1162: Enable J6Entry 3D SRV with UB96x (on Linux) ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-995: Support of CSI input in TDA2Ex		
<u>Keywords:</u>	tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-145: CSI2_3D_SRV_OV10635_964deser_without_TDA2X_FolderSummary:

CSI2 3D SRV UC supported on TDA2Ex/TDA2Ex 17x17 Linux

Input : OV10635 with 964 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

<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 CSI2 CAL capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	It throws error	
<u>Execution type:</u>	Manual		

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1132: TDA2Ex : 3D SRV Support (UB964 & 4 modules of SAT0088) ADASVISION-1162: Enable J6Entry 3D SRV with UB96x (on Linux) ADASVISION-995: Support of CSI input in TDA2Ex
<u>Keywords:</u>	tda2ex-evm tda2ex-entry
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.2.2.3.Test Suite : Car_Black_Box

Test Case VISIONSDK-209: CSI2_3D_SRV_Car_Black_Box_OV10635_964deser			
<u>Summary:</u> CSI2 3D SRV + Car Black Box UC supported on TDA2Ex/TDA2Ex 17x17 Linux Input : OV10635 with 964 deserializer Output : HDMI 1080P			
<u>Preconditions:</u> Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN Run SRV calibration UC if required to generate GPULUT.BIN Verify whether display shows a smooth stitching of all 4 cameras. All running at 30fps, Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "Car Black Box" UC	Display must come up and no buffer drops should be observe Recording will start & will be saved in SD card	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1081: J6 Entry support for VSDK ADASVISION-1164: Car Blackbox demo usecase on Linux (TDA2x/2ex/entry) ADASVISION-1527: API config outbound check ADASVISION-995: Support of CSI input in TDA2Ex		
<u>Keywords:</u>	tda2ex-evm tda2ex-entry		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-210: CSI2_3D_SRV_Car_Black_Box_OV10635_964deser_Start_Stop_Playback
<u>Summary:</u>

CSI2 3D SRV + Car Black Box UC supported on TDA2Ex/TDA2Ex 17x17 Linux

Input : OV10635 with 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 GPULUT.BIN

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

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "Car Black Box" UC	Display must come up and no buffer drops should be observe Recording will start & will be saved in SD card	
3	select start playback	A new window will pop up & Playback will start	
4	select stop playback	Playback will stop	
5	select start playback again	Playback will start from the beginning	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1081: J6 Entry support for VSDK ADASVISION-1164: Car Blackbox demo usecase on Linux (TDA2x/2ex/entry) ADASVISION-1527: API config outbound check ADASVISION-995: Support of CSI input in TDA2Ex		
<u>Keywords:</u>	tda2ex-evm tda2ex-entry		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.2.3.Test Suite : AVB_SRV

Test Case VISIONSDK-117: AVB_4CH_NW_Capture_SRV_Disply			
<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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-262: AVB_4CH_1MP_H264_Capture_SRV_AVBTxSummary:

4CH AVB SRV Dispaly UC

Input: 1MP H264 ethernet Camera

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 listener on PC	Using listener dump frame to PC Run "sudo ./avbtp_listener.sh recv.h264"	
5	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration</u>			

<u>(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-1271: Surround view with 1MP H.264 Ethernet camera on TDA2/2E based Ethernet SRV platform ADASVISION-1394: 4CH AVB Capture + Decode +Surround View (DSPx) + Display ADASVISION-1652: TDA2EX ETH SRV platform board Support with VSDK
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-257: AVB_4CH_1MP_H264_Capture_SRV_DisplySummary:

4CH AVB SRV Disply UC

Input: 1MP H264 ethernet Camera

Output: HDMI 1080P

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

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	Seect HDMI Display	Display should come up & no buffer drops should observed	
4	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-1271: Surround view with 1MP H.264 Ethernet camera on TDA2/2E based Ethernet SRV platform ADASVISION-1394: 4CH AVB Capture + Decode +Surround View (DSPx) + Display ADASVISION-1652: TDA2EX ETH SRV platform board Support with VSDK
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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 selection 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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<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	
Execution Details			
Build		REL_3_6	
Tester		x0246581	
<u>Execution Result:</u>		Passed	
<u>Execution Mode:</u>		Manual	
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-139: SRV_Calibration_UC_default_calibrationSummary:

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

Test Case VISIONSDK-140: SRV_Calibration_UC_auto_calibration_Dump_FrameSummary:

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
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

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

Test Case VISIONSDK-142: SRV_Calibration_UC_auto_calibration_without MMC_SDSummary:

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

Test Case VISIONSDK-143: SRV_Calibration_UC_auto_calibration_without_TDAXX_Folder

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

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

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

<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	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)	

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

1.3.Test Suite : Mono_Cam

1.3.1.Test Suite : VIP

1.3.1.1.Test Suite : VIP_SingleCam_Capture_Display

Test Case VISIONSDK-1: VIP_Capture_Display_Input_OV10635_Output_7inch_LCD

Summary:

Capture Display UC

Input : OV10635

Output : 7" LCD

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 7" LCD	Capture Source should be OV10635 Sensor & Display device as 7" LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observed	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements

ADASVISION-1274: VIP Capture Link to support Single channel capture
 ADASVISION-1291: VIP Capture Link to support Cropping of output video
 ADASVISION-1305: Display Link - LCD display support
 ADASVISION-1311: Display Link - Color keying support
 ADASVISION-1312: Display Link - Set back Ground Color of VENC
 ADASVISION-1316: Display Link - LCD timing configuration
 ADASVISION-1318: Display Link - VENC section
 ADASVISION-1322: Support OV10635 video sensors
 ADASVISION-1330: support LCD displays
 ADASVISION-1332: Set Brightness levels of LCD display
 ADASVISION-1381: 1CH VIP capture + Display

Keywords:

tda2xx-evm
 tda2ex-evm
 tda3xx-evm
 tda2ex-entry
 tda2px-evm
 m_capture
 m_display

Execution Details

Build REL_3_6

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

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 shuld 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 dsplay 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_1080PSummary:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635	Capture Source should be OV10635 & Display device as HDMI 1080P	

	& Display Output 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	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	
<u>Priority:</u>		Medium	
<u>Requirements</u>		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 dsplay 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	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_stress c_performance c_qualification c_stability	
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-112: VIP_Capture_Display_Input_OV10635_Output_10inch_LCDSummary:

Capture Display UC

Input : OV10635

Output : 10" LCD

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 10" LCD	Capture Source should be OV10635 Sensor & Display device as 10" LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1274: VIP Capture Link to support Single channel capture ADASVISION-1305: Display Link - LCD display support ADASVISION-1329: Shall support multiple dsiplay devices - HDMI (on-chip) & LCD displays		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_integration		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-113: VIP_Capture_Display_Input_OV10635_Output_10inch_OSD_LCDSummary:

Capture Display UC

Input : OV10635

Output : 10" OSD LCD

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 10" OSD LCD	Capture Source should be OV10635 Sensor & Display device as 10" OSD LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1274: VIP Capture Link to support Single channel capture	

	ADASVISION-1305: Display Link - LCD display support
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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)

<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 + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	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		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_stress c_qualification c_stability m_capture m_display		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		

Execution duration (sec):

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

Test Case VISIONSDK-312: VIP_Capture_SGX_Copy_Display_Input_OV10635_Output_10inch_LCD

Summary:

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

Input : OV10635

Output : HDMI 1080P

DTB: lcd.dtb

Preconditions:

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

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Go to system setting & select display device as LCD 10"	LCD 10" should be selected	
3	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	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-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-1601: SD card file system support with VSDK ADASVISION-1651: LG 10 inch LCD display support for VSDK-Linux 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
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_stress c_qualification c_stability m_capture m_display
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.3.1.2.Test Suite : VIP_Capture_FrameCopy_Display

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

Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements
 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

Keywords:
 tda2xx-evm
 tda2ex-evm
 tda3xx-evm
 tda2ex-entry
 tda2px-evm
 c_regression
 c_qualification
 m_algorithm

Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-202: VIP_Capture_FrameCopy_A15_Connetor_Links_A15_SGX_Copy_DisplaySummary:

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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	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		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_connector_links		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.1.3.Test Suite : VIP_Capture_IPC_Display

Test Case VISIONSDK-230: VIP_Capture_IPC_Display_Single_core

Summary:

Capture IPC Display UC with Single core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

IPU1_0 -> DSP1 -> IPU1_0

IPU1_0 -> DSP2 -> IPU1_0

IPU1_0 -> EVE1 -> IPU1_0

IPU1_0 -> EVE2 -> IPU1_0

IPU1_0 -> EVE3 -> IPU1_0

IPU1_0 -> EVE4 -> IPU1_0

IPU1_0 -> IPU1_1 -> IPU1_0

IPU1_0 -> A15 -> 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

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

Scenarios:

IPU1_0 -> DSP1 -> IPU1_1 -> DSP2 -> IPU1_0

IPU1_0 -> EVE1 -> DSP1 -> A15_0 -> DSP1 -> IPU1_0

IPU1_0 -> EVE1 -> DSP1 -> A15_0 -> IPU1_0

IPU1_0 -> A15_0 -> DSP1 -> DSP2 -> IPU1_1 -> EVE1 -> IPU1_0

IPU1_0 -> EVE1 -> DSP1 -> EVE2 -> DSP2 -> EVE3 -> A15_0 -> IPU1_1 -> EVE4 (Repeated twice) -> IPU1_0

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture IPC Display UC Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		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	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm	
Execution Details			
Build		REL_3_6	
Tester		x0246581	
<u>Execution Result:</u>		Passed	
<u>Execution Mode:</u>		Manual	
<u>Execution duration (sec):</u>			

1.3.1.4.Test Suite : VIP_Capture_Color_To_Gray_Display

Test Case VISIONSDK-167: VIP_Capture_Color_To_Gray_Display			
<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	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
<u>Execution Result:</u>	Passed	
<u>Execution Mode:</u>	Manual	
<u>Execution duration (sec):</u>		

1.3.1.5.Test Suite : VIP_Capture_DSSWB_Display

Test Case VISIONSDK-178: VIP_Capture_DSSWB_Display			
<u>Summary:</u>			
Single Cam Capture DSSWB Display UC			
supported on TDA2x/TDA2Ex			
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 DSSWB 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-1283: VIP Capture Link to support DSS write back capture ADASVISION-1319: Display DSS write back Link		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.1.6.Test Suite : VIP_Capture_VPE_Display

Test Case VISIONSDK-189: VIP_Capture_VPE_Display	
<u>Summary:</u>	
Single Cam Capture VPE Display UC	

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1		Check Logs of Capture VPE Display UC	
	Run Testsuite	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-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		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_vpe		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.3.1.7.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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + 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
<u>Execution Details</u>	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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 observed	
3	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		

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

Test Case VISIONSDK-199: VIP_Capture_Encode_Decompile_MJPEG_SGX_Copy_DisplaySummary:

VIP Capture Encode Decode SGX copy Display UC with MJPEG Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Encode + Decode + SGX Copy + DISPLAY" UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	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		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-198: VIP_Capture_Encode_Decompile_H264_SGX_Copy_DisplaySummary:

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

1.3.1.8.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</u>	60.00		

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

1.3.2.Test Suite : HDMI

1.3.2.1.Test Suite : HDMI_Capture_Display

Test Case VISIONSDK-3: HDMI_Capture_Display_Input_HDMI_Output_LCD			
<u>Summary:</u>			
Capture Display UC			
Input : HDMI			
Output : LCD			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as HDMI & Display Output as LCD	Capture Source should be HDMI & Display device as LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<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-1305: Display Link - LCD display support ADASVISION-1323: capture from HDMI source ADASVISION-1330: support LCD displays ADASVISION-1331: support for HDMI (off chip) via ADV chip		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_capture m_display		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-4: HDMI_Capture_Display_Input_HDMI_Output_HDMI			
<u>Summary:</u>			
Capture Display UC			
Input : HDMI			
Output : HDMI			
<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</u>

			<u>Status:</u>
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI	Capture Source should 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	
<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-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		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_qualification c_integration		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.2.2.Test Suite : HDMI_Capture_Analytics_Display

Test Case VISIONSDK-16: HDMI_Capture_TLR_Display			
<u>Summary:</u>			
HDMI Capture Traffic Light Display UC			
Input : HDMI			
Output : HDMI 1080P			
<u>Preconditions:</u>			
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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.3.3.Test Suite : MISC

1.3.3.1.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):			

Test Case VISIONSDK-182: NullSrc_Decompose_Display_MJPEG_Frames

Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: MJPEG Bitstream

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Null Src Decode Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:		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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-201: NullSrc_Decompile_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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.3.2.Test Suite : SyncLink

Test Case VISIONSDK-187: VIP_Capture_Sync_Null

Summary:

Single Cam Capture Sync Null UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : Null

Preconditions:

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

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

	display should be running on IPU1-0 at 60fps	
<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	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
<u>Execution Result:</u>	Passed	
<u>Execution Mode:</u>	Manual	
<u>Execution duration (sec):</u>		

1.3.3.3.Test Suite : DupLink

Test Case VISIONSDK-165: VIP_Capture_Dup_Display			
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.3.4.Test Suite : MergeLink

Test Case VISIONSDK-166: VIP_Capture_Merge_Display			
<u>Summary:</u>			
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):			

1.3.3.5.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

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

Test Case VISIONSDK-212: Print_PRCM_Statistics_Dpll_StatusSummary:

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

Test Case VISIONSDK-213: Print_PRCM_Statistics_TemperatureSummary:

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

Test Case VISIONSDK-214: Print_PRCM_Statistics_VoltageSummary:

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

Test Case VISIONSDK-215: Print_PRCM_Statistics_Module_Power_StateSummary:

Print PRCM Statistics Module Power State

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics	On selecting "4" should print Module Power State	

	Press "4" for 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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-216: Print_PRCM_Statistics_CPU_FrequencySummary:

Print PRCM Statistics CPU Frequency

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "5" for CPU Frequency	On selecting "5" should print Frequency of all cores	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-217: Print_PRCM_Statistics_Peripherals_FrequencySummary:

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

Test Case VISIONSDK-219: Print_PRCM_Statistics_Power_Consumption

Summary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

#:	Step actions:	Expected Results:	Execution Status:
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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-220: Print_PRCM_Statistics_All_PRCM_StatsSummary:

Print PRCM Statistics All PRCM Stats

#:	Step actions:	Expected Results:	Execution Status:
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
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.3.3.6.Test Suite : FATFS

Test Case VISIONSDK-228: File_IO_UC_MMCSO_IPU1_0			
<u>Summary:</u> File IO UC using MMCSO on IPU1_0 Read ApplImage from SD card & write back same to SD card			
<u>Preconditions:</u> Verify FATFS running IPU1_0 Build SDK with FATFS flags enabled & NDK disabled and FATFS lib on IPU1_0			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	1. Select File IO UC from Menu	No Display On console, Time taken to read & write should be displayed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	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		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.3.7.Test Suite : Task_time_measure_utility

Test Case VISIONSDK-289: VIP_Capture_Display_task_time_measure_utility
<u>Summary:</u>

Capture Display UC

supported on all platforms

Input : OV10635

Output : HDMI 1080P

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:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1199: Utility to measure time taken for a function in multi-task environment ADASVISION-1381: 1CH VIP capture + Display		
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):			

1.3.3.8.Test Suite : TLFW_verify

Test Case VISIONSDK-309: TLFW_verification			
<u>Summary:</u>			
Verifying testlink fw			
<u>Preconditions:</u>			
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 5. Execute remaining manual test cases from test link 6. Generate test report	User should be able to trigger all automated test cases from test link & also able to update test result for manual test cases	
<u>Execution type:</u>		Manual	

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-369: Deploy TestLink for VSDK test-case management and automation
<u>Keywords:</u>	None
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.4.Test Suite : ECC_FFI

Test Case VISIONSDK-121: Capture_FrameCopy_FFI_DSP1_Display
Summary:

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

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Ensure Binaries build with ECC_FFI_INCLUDE=yes

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

#:	Step actions:	Expected Results:	Execution Status:
1	Run "1CH VIP capture + QM Alg Frame Copy with FFI (DSP1) + Display " UC	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
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):			

1.3.5.Test Suite : IPC_LIB

Test Case VISIONSDK-123: IPC_LIB			
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-240: Low_Latency_IPC			
<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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.4.Test Suite : Open_Compute

1.4.1.Test Suite : OpenVX

Test Case VISIONSDK-223: OpenVX_Confirmation_Test

Summary:

OpenVX Confirmation Test v1.1

supported on both Bios/Linux

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM Run OpenVX Confirmation Test v1.1	Confirmation test should run automatically	

Execution type:

Manual

Estimated exec. duration (sec):

60.00

Priority:

Medium

Requirements

ADASVISION-1553: Algorithm Link Support In place computation support
ADASVISION-936: OpenVX framework - BIOS, Linux (Phase 1)

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-224: OpenVX_Tutorials

Summary:

OpenVX Tutorials

supported on both Bios/Linux

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM Run OpenVX Tutorials	Tutorials should run automatically	

Execution type:

Manual

Estimated exec. duration (sec):

60.00

Priority:

Medium

Requirements

ADASVISION-936: OpenVX framework - BIOS, Linux (Phase 1)

Keywords:

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

Execution Details

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

Test Case VISIONSDK-225: VIP_Capture_OpenVX_Display_Input_OV10635_Output_HDMI_1080P
Summary:

OpenVX Capture Display UC supported on Bios

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as HDMI 1080P	Capture Source shuld be OV10635 Sensor & Display device as HDMI 1080P	
2	Run "VIP Single Channel Capture + OpenVX + Display" UC	Display must come up and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-936: OpenVX framework - BIOS, Linux (Phase 1)		
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):			

1.5.Test Suite : Multi_Cam

1.5.1.Test Suite : Multi_Channel_LVDS_Capture_Display

Test Case VISIONSDK-22: VIP_4CH_Capture_Display_OV10635_913deser			
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		

<u>Execution duration (sec):</u>	
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Test Case VISIONSDK-132: CSI2_4CH_Capture_Display_OV10635_964deserSummary:

4 Channel Capture Display UC

Input : OV10635 with 964 deserializer

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)" & Display Output as HDMI 1080P	Capture Source should be "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)" & Display device as HDMI 1080P	
2	Run "OV10635 & UB964 4CH CSI2 Capture + Display" UC Select "1" For Multi channel mode	On selecting "1" Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	

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

Requirements
 ADASVISION-1133: Capture & Display usecase with UB9640 & 4 modules of SAT0088 on TDA2x 17x17 package
 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-1604: Support sensor frame work

Keywords:
 tda2ex-evm
 tda3xx-evm
 tda2ex-entry

Execution Details

Build REL_3_6

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**Test Case VISIONSDK-203: VIP_4CH_Capture_SGX_Mosaic_Display_OV10635_913deser**Summary:

4 Channel Capture SGX Mosaic Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + SGX	Display must come up with 4CH mosaic on full screen	

	MOSAIC + DISPLAY" UC	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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.5.2.Test Suite : AVB_4CH_Capture_Mosaic_Display_AVBTx

Test Case VISIONSDK-116: AVB_4CH_NW_Capture_Mosaic_Dispaly_AVBTx			
<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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-258: AVB_4CH_NW_Capture_Mosaic_AVBTx			
<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: 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			
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"	
<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-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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-259: AVB_4CH_1MP_H264_Capture_Mosaic_Disply_AVBTxSummary:

Supported on TDA2Ex Ethernet SRV board

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

Input: 1MP H264 ethernet cameras

Output: HDMI1080P/PC

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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	Select HDMI Display + AVB TX	Display should come up & no buffer drops should be seen	
5	Run avb listener on PC side	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-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-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
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<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-260: AVB_4CH_1MP_H264_Capture_Mosaic_AVBTxSummary:

Supported on TDA2Ex Eth SRV board

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

Input: 1MP H264 ethernet cameras

Output: PC

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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	Select AVB TX	Option should be selected & No display over HDMI	
5	Run avb listener on PC side	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-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
 ADASVISION-1583: Shall support AVB multi-channel capture upto 4 channel

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

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

1.5.3.Test Suite : SelectLink

Test Case VISIONSDK-186: VIP_4CH_Capture_Select_Display

Summary:

Multi Cam Capture Select Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

#:	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	

Execution type:

Manual

Estimated exec. duration (sec):

Priority:

Medium

Requirements

ADASVISION-1521: select a particular channel

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):

1.5.4.Test Suite : VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display

Test Case VISIONSDK-192: VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display			
<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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.6.Test Suite : Build

1.6.1.Test Suite : VSDK_Builds

Test Case VISIONSDK-249: VSDK_BIOS_different_builds			
<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"> • BIOS Different Build Config : build_vsdk.sh • build_vsdk.sh
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-250: VSDK_Linux_different_builds

Summary:

VSDK Linux different configurations Build

Preconditions:

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

All ti_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
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_integration
Attached files	<ul style="list-style-type: none"> Linux Different Build Config : build_Linux.sh build_Linux.sh
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-278: VSDK_KW_build			
Summary:			
VSDK Klocwork Build			
Preconditions:			
Jenkin Node is up & running			
#:	Step actions:	Expected Results:	Execution Status:
1	Login to Jenkin server & trigger VSK_KW_build projet	Should build KW project & sent a report with open criticcal & major MISRA-C issues	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1353: Static code checker Klockwork ADASVISION-1517: Static code checker MISRA-C ADASVISION-1525: Follow coding guidelines		
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):			

1.7.Test Suite : Release_Process

Test Case VISIONSDK-245: VSDK_Radar_release_check_list			
<u>Summary:</u>			
VSDK & Radar release check list			
<u>Preconditions:</u>			
VSDK & Radar RC package already installed & tested			
Verify that release goes through the standard release process			
#:	Step actions:	Expected Results:	Execution Status:
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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-246: VSDK_package_creation_and_installation

Summary:

VSDK package creation & installation on windows & linux machine

Preconditions:

VSDK RC package installed & tested

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.8.Test Suite : Boot_Modes

1.8.1.Test Suite : SD_Boot

Test Case VISIONSDK-273: Load_BIOS_Binaries_using_SD_Card			
<u>Summary:</u>			
Load Binaries using SD Card			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy Appimage & MLO (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		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-283: Load_Linux_Binaries_using_SD_Card			
<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
Execution Details	
Build	REL_3_6
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.8.2.Test Suite : QSPI_Boot

Test Case VISIONSDK-274: Load_Binaries_using_QSPI

Summary:

Load Binaries using QSPI

Preconditions:

Build Appimage & SBL for QSPI

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & ApplImage to QSPI	SBL & ApplImage should be flashed to QSPI	
3	Discoonnect CCS & Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements ADASVISION-1346: QSPI boot mode
ADASVISION-1347: Flashing method

Keywords: tda2xx-evm
tda2ex-evm
tda3xx-evm
tda2ex-entry
tda2px-evm
tda3xx_rvp

Execution Details

Build REL_3_6

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.8.3.Test Suite : NOR_Boot

Test Case VISIONSDK-276: Load_Binaries_using_NOR			
Summary:			
Load Binaries using NOR			
Preconditions:			
Build Appimage & SBL for NOR			
#:	Step actions:	Expected Results:	Execution Status:
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & AppImage to NOR	SBL & AppImage should be flashed to NOR	
3	Discoonnect CCS & Follow UG to set SYSBOOT PIN for NOR Boot	SYSBOOT PIN should be for NOR Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1345: NOR boot mode		
Keywords:	tda2xx-evm tda2ex-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.8.4.Test Suite : NFS_Boot

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries from NFS path & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1424: Basic board configuration bringup using u-boot/Linux		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.8.5.Test Suite : CCS_Boot

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