



Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV_Test_Plan_3_3_Functional_TDA2Ex

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2017 (c) Testlink Community

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: PSDKV_Test_Plan_3_3_Functional_TDA2Ex

TDA2Ex Functional Test Plan

Will cover all functional test for tda2ex-evm & tda2ex-entry

1.1.Test Suite : Network

1.1.1.Test Suite : TCP/IP

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

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

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

Test Case VISIONSDK-104: NW_Ctrl_cmd_mem_wr

Summary:

Network Control Command "mem_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

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

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

Network Rx Decode Display UC

Input : H264Encoded frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

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

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

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

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

Test Case VISIONSDK-236: NW_Rx_Declare_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> --usefddtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
Execution type:		Manual	
Estimated exec. duration (sec):			
Priority:		Medium	
Keywords:		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw	
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-237: SingleCam_Capture_NW_Tx_TFDTPSummary:

Single Channel capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

	tda3xx-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_3
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

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

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

Test Case VISIONSDK-239: SingleCam_Capture_Encode_NW_Tx_TFDTP

Summary:

Single Channel capture + Encode + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Keywords:
tda2xx-evm
tda2ex-evm
tda3xx-evm
tda2ex-entry
tda2px-evm
c_regression
c_qualification
m_capture
m_display

Execution Details

Build: REL_3_3

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Automated**

Execution duration (sec):

Execution notes: TestLogPath

>

Test Case VISIONSDK-146: VIP_2D_SRV_OV10635_913deser_without_TDAXX_FolderSummary:

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

Input : OV10635 with 913/914 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

In case of TDA3x:

Ensure TDA3x folder not present in SD card

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

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

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

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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	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_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath]]>		

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

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

Test Case VISIONSDK-253: VIP_3D_SRV_OV10635_913deser_MultipleTimesSummary:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	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

Keywords: tda2xx-evm

Execution Details	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	Failed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	
Execution notes	ADASVISION-1836

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

Keywords:
tda2ex-evm
tda2ex-entry
c_regression
c_qualification
m_iss

Execution Details

Build REL_3_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

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

#:	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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2ex-evm tda2ex-entry		
Execution Details			
Build	REL_3_3		
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_964deser			
<u>Summary:</u>			
CSI2 3D SRV UC supported on TDA2Ex/TDA2Ex 17x17/TDA2Px 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			
#:	Step actions:	Expected Results:	Execution Status:
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>Keywords:</u>	tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
Execution Details			
Build	REL_3_3		
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_Folder

Summary:

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>Keywords:</u>	tda2ex-evm tda2ex-entry		
Execution Details			
Build	REL_3_3		
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

Summary:

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

#:	Step actions:	Expected Results:	Execution Status:
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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2ex-evm tda2ex-entry		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-210: CSI2_3D_SRV_Car_Black_Box_OV10635_964deser_Start_Stop_PlaybackSummary:

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

#:	Step actions:	Expected Results:	Execution Status:
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>Keywords:</u>		tda2ex-evm	

	tda2ex-entry
Execution Details	
Build	REL_3_3
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.2.3.Test Suite : AVB_SRV

Test Case VISIONSDK-117: AVB_4CH_NW_Capture_SRV_Disply

Summary:

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

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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

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

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

<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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords:
tda2xx-evm
tda2ex-evm
tda2ex-entry
tda2px-evm
c_regression
c_stress
c_stability

Execution Details

Build REL_3_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot up	
2	Select UC	UC should be selected	
3	Select AVB TX only	option should be selected & no display	
4	Run avb talker & listener on PC side	Using Talker sent files from PC to target Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]" Using listener dump frame to PC Run "sudo ./avbtp_listener.sh recv.h264"	
5	Press "P"	Check performance stats should match with IVAHD codec performance data	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

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

Execution Details

Build REL_3_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-262: AVB_4CH_1MP_H264_Capture_SRV_AVBTx

Summary:

4CH AVB SRV Dispay 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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot up	
2	Select UC	UC should be selected	
3	Select AVB TX only	option should be selected & no display	
4	Run avb 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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-257: AVB_4CH_1MP_H264_Capture_SRV_Disply

Summary:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot up	
2	Select UC	UC should be selected	
3	Select 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>Keywords:</u>		tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm	

Execution Details	
Build	REL_3_3
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.2.4.Test Suite : SRV_Calibration

Test Case VISIONSDK-137: SRV_Calibration_UC_auto_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

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

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

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

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

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

Test Case VISIONSDK-141: SRV_Calibration_UC_auto_calibration_update_2D_PERSMATSummary:

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_3
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_SD

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

Boot from QSPI

No MMC/SD card present

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

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

Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-143: SRV_Calibration_UC_auto_calibration_without_TDAXX_Folder

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

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

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

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

Build	REL_3_3
Tester	x0246581
<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

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

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

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

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

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

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

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

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

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>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
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_1080PSummary:

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

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

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

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

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

Test Case VISIONSDK-296: VIP_Capture_Display_without_SensorSummary:

Capture Display UC without sensor connected

supported on all platforms

Input : No Sensor connected

Output : HDMI 1080P

Preconditions:

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

None of the sensors are connected

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

Test Case VISIONSDK-312: VIP_Capture_SGX_Copy_Display_Input_OV10635_Output_10inch_LCDSummary:

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

Input : OV10635

Output : HDMI 1080P

DTB: lcd.dtb

Preconditions:

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

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

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

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

Test Case VISIONSDK-7: VIP_Capture_FrameCopy_DSP1_Display

Summary:

Capture FrameCopy Display UC on DSP1

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

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

Test Case VISIONSDK-196: VIP_Capture_FrameCopy_A15_SGX_Copy_DisplaySummary:

Capture FrameCopy SGX copy Display UC on A15

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

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

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

Test Case VISIONSDK-202: VIP_Capture_FrameCopy_A15_Connector_Links_A15_SGX_Copy_Display

Summary:

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

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

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

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		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-231: VIP_Capture_IPC_Display_Multi_coreSummary:

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</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	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			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
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

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

1.3.1.6.Test Suite : VIP_Capture_VPE_Display

Test Case VISIONSDK-189: VIP_Capture_VPE_Display

Summary:

Single Cam Capture VPE Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

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

1.3.1.7.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 should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + ENC + DEC + Display UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observed	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
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_DisplaySummary:

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

#:	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 + 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>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry		

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

Test Case VISIONSDK-199: VIP_Capture_Encode_Decode_MJPEG_SGX_Copy_Display

Summary:

VIP Capture Encode Decode SGX copy Display UC with MJPEG Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Encode + Decode + SGX Copy + DISPLAY" UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Automated		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath]]>		

Test Case VISIONSDK-198: VIP_Capture_Encode_Decode_H264_SGX_Copy_Display

Summary:

VIP Capture Encode Decode SGX copy Display UC with H264 Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath]]>		

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 shuld 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	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		

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

1.3.2.Test Suite : HDMI

1.3.2.1.Test Suite : HDMI_Capture_Display

Test Case VISIONSDK-3: HDMI_Capture_Display_Input_HDMI_Output_LCD

Summary:

Capture Display UC

Input : HDMI

Output : LCD

Preconditions:

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

<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>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_capture m_display		
Execution Details			
Build	REL_3_3		
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

Summary:

Capture Display UC

Input : HDMI

Output : HDMI

Preconditions:

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

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

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

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 shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + Traffic Light Recognition (TLR) (DSP1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Automated		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath]]>		

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		
Keywords:	tda2xx-evm m_connector_links		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-182: NullSrc_Decode_Display_MJPEG_Frames

Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: MJPEG Bitstream

Output : HDMI 1080P

Preconditions:

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

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

<u>Keywords:</u>	tda2xx-evm
Execution Details	
Build	REL_3_3
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_FramesSummary:

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	

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

Build REL_3_3

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**Test Case VISIONSDK-201: NullSrc_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	

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

Build	REL_3_3
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-200: NullSrc_Decode_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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Decode + Display (Only 1920x1080 H264/MJPEG Video Input Bit-Stream Supported)" UC	Display must come up and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.3.3.2.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

#:	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture Sync Null UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm		

	tda3xx-evm tda2ex-entry tda2px-evm m_connector_links
Execution Details	
Build	REL_3_3
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>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
Execution Details			
Build	REL_3_3		
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			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Capture Merge Display UC	

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

1.3.3.5.Test Suite : StatisticsLogs

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

<u>Execution duration (sec):</u>	
Execution notes	TestLogPath]]>

Test Case VISIONSDK-212: Print_PRCM_Statistics_Dpll_StatusSummary:

Print PRCM Statistics Dpll Status

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

Test Case VISIONSDK-213: Print_PRCM_Statistics_TemperatureSummary:

Print PRCM Statistics Temperature

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

<u>Execution duration (sec):</u>	
Execution notes	TestLogPath]]>

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>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Automated		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath]]>		

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 Press "4" for Module Power State	On selecting "4" should print Module Power State Module Name & Module state Module SIDLE State Clock Activite State Power Domain State	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		

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

Test Case VISIONSDK-216: Print_PRCM_Statistics_CPU_FrequencySummary:

Print PRCM Statistics CPU Frequency

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

Test Case VISIONSDK-217: Print_PRCM_Statistics_Peripherals_FrequencySummary:

Print PRCM Statistics Peripherals Frequency

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "6" for Peripherals Frequency	On selecting "6" should print Peripherals Frequency of QSPI & DSS	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		

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

Test Case VISIONSDK-218: Print_PRCM_Statistics_Prcm_Register_DataSummary:

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	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Automated		
Execution duration (sec):			
Execution notes	TestLogPath]]>		

Test Case VISIONSDK-219: Print_PRCM_Statistics_Power_ConsumptionSummary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "8" for Power Consumption	On selecting "8" should print Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry		

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

Test Case VISIONSDK-220: Print_PRCM_Statistics_All_PRCM_Stats

Summary:

Print PRCM Statistics All PRCM Stats

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

1.3.3.6.Test Suite : FATFS

Test Case VISIONSDK-228: File_IO_UC_MMCSd_IPU1_0

Summary:

File IO UC using MMCSd on IPU1_0

Read ApplImage from SD card &

write back same to SD card

Preconditions:

Verify FATFS running IPU1_0

Build SDK with FATFS flags enabled & NDK disabled and FATFS lib on IPU1_0

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

1.3.3.7.Test Suite : Task_time_measure_utility**Test Case VISIONSDK-289: VIP_Capture_Display_task_time_measure_utility**Summary:

Capture Display UC

supported on all platforms

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Press "4" for Demonstrate Task Timer utility	On console should print Global time taken & actual time taken by utility for function	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm		

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

1.3.3.8.Test Suite : TLFW_verify

Test Case VISIONSDK-309: TLFW_verification

Summary:

Verifying testlink fw

Preconditions:

staf should be running

#:	Step actions:	Expected Results:	Execution Status:
1	<div>1. Add all vision SDK test cases to test link, Map with requirements from JIRA</div> <div>2. Create a test plan & under that create a build</div> <div>3. Add test cases to execute for that particular build</div> <div>4. Trigger all automated test cases from test link</div> <div>5. Execute remaining manual test cases from test link</div> <div>6. Generate test report</div>	<div>User should be able to trigger all automated test cases from test link</div> <div>& also able to update test result for manual test cases</div>	

Execution type:

Manual

Estimated exec. duration (sec):

Priority:

Medium

Keywords:

None

Execution Details

Build

REL_3_3

Tester

x0246581

Execution Result:

Passed

Execution Mode:

Manual

Execution duration (sec):

Test Case VISIONSDK-325: VSDK_restructuring_directory_structure			
<u>Summary:</u> 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	Directory structure should be as stated	

	docs		
	testsuite		
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_3		
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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Automated		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath]]>		

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

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</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-224: OpenVX_Tutorials

Summary:

OpenVX Tutorials

supported on both Bios/Linux

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM Run OpenVX Tutorials	Tutorials should run automatically	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
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_1080PSummary:

OpenVX Capture Display UC supported on Bios

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

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

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>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_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Automated		
<u>Execution duration (sec):</u>			
Execution notes	TestLogPath]]>		

Test Case VISIONSDK-132: CSI2_4CH_Capture_Display_OV10635_964deser			
<u>Summary:</u>			
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 shuld 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:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Keywords:	tda2ex-evm tda3xx-evm tda2ex-entry		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-203: VIP_4CH_Capture_SGX_Mosaic_Display_OV10635_913deserSummary:

4 Channel Capture SGX Mosaic Display UC
supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux
Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

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

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

1.5.2.Test Suite : AVB_4CH_Capture_Mosaic_Display_AVBTx

Test Case VISIONSDK-116: AVB_4CH_NW_Capture_Mosaic_Dispaly_AVBTx

Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

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

Input: Throuh Network (using AVB Talker)

Output: HDMI1080P/PC

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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

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

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

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords:

tda2xx-evm
tda2ex-evm
tda2ex-entry
tda2px-evm
c_regression
m_iva

Execution Details

Build REL_3_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-258: AVB_4CH_NW_Capture_Mosaic_AVBTx

Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

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

Input: Throuh Network (using AVB Talker)

Output: PC

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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

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

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

No Display

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

Test Case VISIONSDK-259: AVB_4CH_1MP_H264_Capture_Mosaic_Disply_AVBTx

Summary:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot	
2	Select UC	UC should be selected	
3	Enter no of channels as 4	No of channels should be 4	
4	Seectl HDMI Display + AVB TX	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"	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM should boot	
2	Select UC	UC should be selected	
3	Enter no of channels as 4	No of channels should be 4	
4	Seect 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"	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm	

	tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_3
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.5.3.Test Suite : SelectLink

Test Case VISIONSDK-186: VIP_4CH_Capture_Select_Display

Summary:

Multi Cam Capture Select Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

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

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

Summary:

Multi Cam Capture VPE Sync DMA SWMS Display UC

supported on TDA2x/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

On IPU/A15: System EDMA

On DSP: Local DMA

Preconditions:

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

<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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

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

Execution Details

Build REL_3_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.6.Test Suite : 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>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_3		
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			
<u>Summary:</u> VSDK Linux different configurations Build			
<u>Preconditions:</u> Follow Linux UG to Install release package, clone kernel,u-boot,sgx,ipumm,cmem, download filesystems (4.4 kernel) All ti_cmponents (including PDK) should be part of release package Copy all necessary components (gcc tool,linaro tool chain)			

#:	Step actions:	Expected Results:	Execution Status:
1	Navigate to (v sdk_install_path)/vision_sdk/build Modify Rules.mk file to MAKECONFIG=tda2xx_evm_linux_all & run make -s showconfig	Should display config for tda2xx_evm_linux_all	
2	Check config params	Memory should be 1024MB IPU_PRIMARY_CORE=ipu2 & A15_TARGET_OS=Linux	
3	run make linux & then make linux_install	Should build kernel	
4	run make -s -j depend & make -s -j	should build apps.out	
5	Modify Rule.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MKAECONFIG selected	
6	Repeat step 3 & 4	Should build sucessfully	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_integration		
<u>Attached files</u>	<ul style="list-style-type: none"> Linux Different Build Config : build_Linux.sh build_Linux.sh 		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-278: VSDK_KW_buildSummary:

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

Build	REL_3_3
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			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Check for licenses, manifest, release notes, test reports, datasheets	Release shall comply for the basic release process such as export license, OSRB approval etc.	
2	Check there are test cases for all product requirements (planned in release) & executed in testing phase	Traceability report (Req -> Test) should have all req mapped to tc Test result matrix should have nothing in "Not Run" state	
3	Check updated project plan, test plan, test strategy docs for release are all available in clearcase	All updated version of docs should be available in clearcase	
4	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
5	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_3		
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			
<u>Summary:</u>			
VSDK package creation & installation on windows & linux machine			
<u>Preconditions:</u>			
VSDK RC package installed & tested			
#:	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	

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

Summary:

Load Binaries using SD Card

supported on TDA2x/TDA2Ex/TDA2Ex Entry

Preconditions:

Build & Copy Appimage & MLO to SD card

#:	Step actions:	Expected Results:	Execution Status:
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries & Display Main Menu	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-283: Load_Linux_Binaries_using_SD_Card

Summary:

Load Binaries using SD Card

supported on TDA2x/TDA2Ex/TDA2Ex Entry

Preconditions:

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

#:	Step actions:	Expected Results:	Execution Status:
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda2ex-entry	

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

1.8.2.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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.8.3.Test Suite : NOR_Boot

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

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>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
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>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			