



Test Plan Execution Report (on specific build)

Test Project: VISIONSDK

Test Plan: TDA2Ex_Functional_Test_Plan

Build: REL_3_1

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2017 (c) Testlink Community

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: TDA2Ex_Functional_Test_Plan

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

Summary:

Network Control Command "echo"

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 notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	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		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			

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

Test Case VISIONSDK-101: NW_Ctrl_cmd_sys_reset

Summary:

Network Control Command "sys_reset"

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 notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	Execute "sys_reset" 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

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-102: NW_Ctrl_cmd_qspi_wr

Summary:

Network Control Command "qspi_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

1	Boot EVM	EVM boots without any error and usecase menu displayed
	Open command prompt in host PC	
2	Execute "qspi_wr" 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>	
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Execution Details		
Build	REL_3_1	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-103: NW_Ctrl_cmd_mem_rd

Summary:

Network Control Command "mem_rd"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
	Open command prompt in host PC			
2	Execute "mem_rd" 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>			
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			

Execution duration
(sec):

Test Case VISIONSDK-104: NW_Ctrl_cmd_mem_wr

Summary:

Network Control Command "mem_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM Open command prompt in host PC	EVM boots without any error and usecase menu displayed		
2	Execute "mem_wr" command using network_ctrl.exe #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-105: NW_Ctrl_cmd_mem_save

Summary:

Network Control Command "mem_save"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Open command prompt in host PC	EVM should not hang, and		

Execute "mem_save" command using network_ctrl.exe network command should work according to command on target side

```
#network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>
```

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-106: NW_Rx_Display

Summary:

Network Rx Display UC

Input : RAW frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues		
3	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port>] --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Failed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-108: NW_Rx_Decode_Display_H264_Frames

Summary:

Network Rx Decode Display UC

Input : H264Encoded frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "Network RX + Decode + Display (TDA2x ONLY)" UC under Network UCs	UC should run without any issues		
3	Open command prompt in host PC & Send H264 Encode frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-109: SingleCam_Capture_NW_Tx

Summary:

1 Channel capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	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		
Execution type:		Manual		
Estimated exec. duration (sec):				
Priority:		Medium		

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Failed**
Execution Mode: **Manual**
Execution duration (sec):

Test Case VISIONSDK-110: MultiCam_Capture_NW_Tx

Summary:

4 Channel VIP capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	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		
Execution type:		Manual		
Estimated exec.				

duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-111: SingleCam_Capture_Encode_NW_Tx**

Summary:

1 Channel capture + Encode + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):

1.1.2.Test Suite : TFDTP

Test Case VISIONSDK-234: NW_Rx_Display_TFDTP

Summary:

Network Rx Display UC using TFDTP

Input : RAW frames

Output : HDMI 1080P

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Failed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-236: NW_Rx_Decode_Display_H264_Frames_TFDTP

Summary:

Network Rx Decode Display UC using TFDTP

Input : H264Encoded frames

Output : HDMI 1080P

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "Network RX + Decode + Display (TDA2x ONLY)" UC under Network UCs	UC should run without any issues		
3	Select TFDTP	TFDTP should be selected		
4	Open command prompt in host PC & Send H264 Encode frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] -files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side		

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-237: SingleCam_Capture_NW_Tx_TFDTP

Summary:

Single Channel capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	Expected Results:	Execution notes:	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 --	EVM should not hang, and network command should work according to command on target side		

verbose --no_loop --delay <delay in secs>] -
-files <CH0 file> <CH1 file>

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-238: MultiCam_Capture_NW_Tx_TFDTP

Summary:

4 Channel VIP capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-239: SingleCam_Capture_Encode_NW_Tx_TFDTP

Summary:

Single Channel capture + Encode + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

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 notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	& 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:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-146: VIP_2D_SRV_OV10635_913deser_without_TDAXX_Folder

Summary:

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

Input : OV10635 with 913/914 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

In case of TDA3x:

Ensure TDA3x folder not present in SD card

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

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

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

Execution type:

Manual

Estimated exec.
duration (sec):

Priority:

Medium

Execution Details

Build REL_3_1

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

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

#:	Step actions:	Expected Results:	Execution notes:	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

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

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 notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed		
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	It throws error		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**

Execution Mode: **Manual**Execution duration
(sec):

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 notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)"	Capture Source should be OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)		
	& Display Output as HDMI 1080P	& 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			

Execution Details

Build REL_3_1
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 notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)"	Capture Source should be OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)		
	& Display Output as HDMI 1080P	& 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: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.2.2.2.Test Suite : 3D_SRV

Test Case VISIONSDK-127: CSI2_3D_SRV_OV10635_964deser

Summary:

CSI2 3D SRV 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 notes:	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		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

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

#:	Step actions:	Expected Results:	Execution notes:	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	It throws error		
Execution type: Manual				
Estimated exec. duration (sec):				
Priority: Medium				
Execution Details				
Build	REL_3_1			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

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 notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed		
		Display must come up and no buffer drops should be observe		
2	Run "Car Black Box" UC	Recording will start & will be saved in SD card		
Execution type: Manual				
Estimated exec. duration (sec):				
Priority: Medium				

Execution Details

Build REL_3_1
 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_Playback

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 notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed Display must come up and no buffer drops should be observe		
2	Run "Car Black Box" UC	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		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 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

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
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]" Check performance stats		
5	Press "P"	should match with IVAHD codec performance data		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

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 notes:	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 Using Talker sent files from PC to target		
4	Run avb talker & listener on PC side	Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]" Using listener dump frame to PC Run "sudo ./avbtp_listener.sh recv.h264" Check performance stats		
5	Press "P"	should match with IVAHD codec performance data		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

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 Dispaly UC

Input: 1MP H264 ethernet Camera

Output: PC

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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

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

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

and no display

#:	Step actions:	Expected Results:	Execution notes:	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" Check performance stats		
5	Press "P"	should match with IVAHD codec performance data		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

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 Dispaly 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 notes:	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 Check performance stats		
4	Press "P"	should match with IVAHD codec performance data		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

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 notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
2	Run "SRV Calibration" UC	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
			Display must come up with mosaic view of all 4 cameras	
3	Select Auto Calibration		and no buffer drops should be observe	
			On selecting Auto calibration	
			It will detect corners for all 4 cameras & generate	
4	Run any SRV UC & verify the output	PERSMAT.BIN (in case of TDA2x/TDA2ex)		
		LUT.BIN (in case of TDA3x)		
Execution type:		Manual		
Estimated exec. duration (sec):				
Priority:		Medium		
Execution Details				
Build		REL_3_1		
Tester		x0246581		
Execution Result:		Passed		
Execution Mode:		Manual		
Execution duration (sec):				

Test Case VISIONSDK-138: SRV_Calibration_UC_manual_calibration**Summary:**

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		Capture Source should be		
		OV10635 Sensor 720P30 or		
	Go to System Settings	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
1	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	depending upon the hardware connected		
	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)	& 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
Remove the card &
- 4 refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide
to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)
Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)
- 5 to MMC/SD card & insert into EVM
& Run any SRV UC

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-139: SRV_Calibration_UC_default_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

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 notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
		& Display device as HDMI 1080P		

& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY) XGA TDM mode (TDA3x ONLY)

Display must come up with mosaic view of all 4 cameras

2 Run "SRV Calibration" UC and no buffer drops should be observe

On selecting Auto calibration

It will detect corners for all 4 cameras & generate

3 Select Auto Calibration PERSMAT.BIN (in case of TDA2x/TDA2ex)

LUT.BIN (in case of TDA3x)

On selecting "d"

4 Select "d" to Save Display Frame to MMC/SD card Display Frame should be saved to MMC/SD card

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-141: SRV_Calibration_UC_auto_calibration_update_2D_PERSMAT

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
		Display must come up with mosaic view of all 4 cameras		
2	Run "SRV Calibration" UC	and no buffer drops should be observe		
		On selecting Auto calibration		
		It will detect corners for all 4 cameras & generate		
3	Select Auto Calibration	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		
Execution type: Manual				
Estimated exec. duration (sec):				
Priority: Medium				
Execution Details				
Build REL_3_1				
Tester x0246581				
Execution Result: Passed				
Execution Mode: Manual				

Execution duration
(sec):

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

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

Execution Details

Build: REL_3_1
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 notes:	Execution Status:
1	Go to System Settings	Capture Source should be		
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or		
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or		
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	depending upon the hardware connected	depending upon the hardware connected		
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& 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

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.3.Test Suite : Mono_Cam

1.3.1.Test Suite : VIP

1.3.1.1.Test Suite : VIP_SingleCam_Capture_Display

Test Case VISIONSDK-1: VIP_Capture_Display_Input_OV10635_Output_7inch_LCD

Summary:

Capture Display UC

Input : OV10635

Output : 7" LCD

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	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		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-2: VIP_Capture_Display_Input_OV10635_Output_HDMI_720P

Summary:

Capture Display UC

Input : OV10635

Output : HDMI 720P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor	Capture Source should be OV10635 Sensor		
	& Display Output as HDMI 720P	& Display device as HDMI 720P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-5: VIP_Capture_Display_Input_OV10635_Output_HDMI_1080P

Summary:

Capture Display UC

supported on all platforms

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

should not change Capture output dynamically

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

	& Display Output as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe TI logo should be on left top corner
3	Check for graphics elements displayed on screen	All load bars should be on left bottom corner
		Check performance stats
		Should print CPU Load of all cores,
4	Press "P"	Capture & Display FPS numbers DDR, Heap memory, OCMC, SR1, remote log buffer memory usage

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

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-112: VIP_Capture_Display_Input_OV10635_Output_10inch_LCD

Summary:

Capture Display UC

Input : OV10635

Output : 10" LCD

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 Sensor & Display Output as 10" LCD	Capture Source should be OV10635 Sensor & Display device as 10" LCD		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe		
	Execution type: Automated			
	Estimated exec. 60.00			

duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-113: VIP_Capture_Display_Input_OV10635_Output_10inch_OSD_LCD**

Summary:

Capture Display UC

Input : OV10635

Output : 10" OSD LCD

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	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		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-195: VIP_Capture_SGX_Copy_Display_Input_OV10635_Output_HDMI_1080P**

Summary:

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

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed		
2	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-312: VIP_Capture_SGX_Copy_Display_Input_OV10635_Output_10inch_LCD

Summary:

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

Input : OV10635

Output : HDMI 1080P

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 notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed		
2	Go to system setting & select display device as LCD 10"	LCD 10" should be selected		
3	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.3.1.2.Test Suite : VIP_Capture_FrameCopy_Display

Test Case VISIONSDK-6: VIP_Capture_FrameCopy_A15_Display

Summary:

Capture FrameCopy Display UC on A15

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	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		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

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

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

2 & Display Output as HDMI 1080P
 Run 1 Ch VIP capture + Display must come up and no
 FrameCopy (DSP1) + Display UC buffer drops should be observe
 Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-196: VIP_Capture_FrameCopy_A15_SGX_Copy_Display

Summary:

Capture FrameCopy SGX copy Display UC on A15

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed		
2	Run "1CH VIP capture + Alg Frame Copy (A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe		

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

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-202: VIP_Capture_FrameCopy_A15_Connector_Links_A15_SGX_Copy_Display

Summary:

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

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed		
2	Run "1CH VIP + Alg Frame Copy (A15) + Connetor Links (Dup, Merge, Select, Gate on A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe		
Execution type:		Manual		
Estimated exec. duration (sec):		60.00		
Priority:		Medium		
Execution Details				
Build		REL_3_1		
Tester		x0246581		
Execution Result:		Passed		
Execution Mode:		Manual		
Execution duration (sec):				

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 notes:	Execution Status:
		Check Logs of Capture IPC Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-231: VIP_Capture_IPC_Display_Multi_core

Summary:

Capture IPC Display UC with Multi core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

IPU1_0 -> 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 notes:	Execution Status:
		Check Logs of Capture IPC Display UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.3.1.4.Test Suite : VIP_Capture_Color_To_Gray_Display

Test Case VISIONSDK-167: VIP_Capture_Color_To_Gray_Display

Summary:

Single Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.3.1.5.Test Suite : VIP_Capture_DSSWB_Display

Test Case VISIONSDK-178: VIP_Capture_DSSWB_Display

Summary:

Single Cam Capture DSSWB Display UC

supported on TDA2x/TDA2Ex

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Execution Details

Build REL_3_1
 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 notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + ENC + DEC + Display UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe		
3	Press "P"	Check performance stats		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

Test Case VISIONSDK-13: VIP_Capture_Encode_Decode_H264_Display

Summary:

VIP Capture Encode Decode Display UC with H264 Frames

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + ENC + DEC + Display UC	Display must come up and no buffer drops should be observe		
	& select "1" for H264 Frames	Check performance stats		
3	Press "P"	should match with IVAHD codec performance data		

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

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

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

#:	Step actions:	Expected Results:	Execution notes:	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	Display must come up and no buffer drops should be observe		
	& select "0" for MJPEG Frames			
3	Press "P"	Check performance stats		

Execution type: Manual
 Estimated exec.
 duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

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 notes:	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

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

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 notes:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635	Capture Source should be OV10635		
2	& Display Output as HDMI 1080P Run "1CH VIP capture + Safe Frame Copy (A15) + Display" UC	& Display device as HDMI 1080P Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.3.2.Test Suite : HDMI

1.3.2.1.Test Suite : HDMI_Capture_Display

Test Case VISIONSDK-3: HDMI_Capture_Display_Input_HDMI_Output_LCD

Summary:

Capture Display UC

Input : HDMI

Output : LCD

Preconditions:

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

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

2 & Display Output as LCD
 Run 1 Ch VIP capture + Display UC Display must come up and no buffer drops should be observe
 Execution type: Automated
 Estimated exec. duration (sec): 60.00
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-4: HDMI_Capture_Display_Input_HDMI_Output_HDMI

Summary:

Capture Display UC

Input : HDMI

Output : HDMI

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	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		
	Execution type: Automated			
	Estimated exec. duration (sec): 60.00			
	Priority: Medium			
	Execution Details			
	Build REL_3_1			
	Tester x0246581			
	Execution Result: Passed			
	Execution Mode: Manual			
	Execution duration (sec):			

1.3.2.2.Test Suite : HDMI_Capture_Analytics_Display

Test Case VISIONSDK-16: HDMI_Capture_TLR_Display

Summary:

HDMI Capture Traffic Light Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

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

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration (sec):

1.3.3.Test Suite : MISC

1.3.3.1.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 notes:	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

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.3.3.2.Test Suite : DupLink

Test Case VISIONSDK-165: VIP_Capture_Dup_Display

Summary:

Single Cam Capture Dup Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.3.3.3.Test Suite : MergeLink

Test Case VISIONSDK-166: VIP_Capture_Merge_Display

Summary:

Single Cam Capture Merge Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**1.3.3.4.Test Suite : StatisticsLogs****Test Case VISIONSDK-211: VIP_SingleCam_Capture_Display_Statistics_Logs**

Summary:

Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635	Capture Source should be OV10635 & Display device as HDMI 1080P		
	& Display Output as HDMI 1080P			
2	Run 1 Ch VIP capture +	Display must come up and no buffer		

Display UC

drops should be observe

It should print all performance statistics

1. Load on all cores

3

Press "P"

2. DDR BW usage

3. FPS for each Link

4. Latency to process frames

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-212: Print_PRCM_Statistics_Dpll_Status**

Summary:

Print PRCM Statistics Dpll Status

#:	Step actions:	Expected Results:	Execution notes:	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

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-213: Print_PRCM_Statistics_Temperature**

Summary:

Print PRCM Statistics Temperature

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
----	---------------	-------------------	------------------	-------------------

1 Go to System Settings -> On selecting "2" should print current min
 Print PRCM Statistics & max temperature on all cores

Press "2" for Temperature

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-214: Print_PRCM_Statistics_Voltage

Summary:

Print PRCM Statistics Voltage

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "3" for Voltage	On selecting "3" should print voltage usage		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-215: Print_PRCM_Statistics_Module_Power_State

Summary:

Print PRCM Statistics Module Power State

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "4" for Module Power State	On selecting "4" should print Module Power State Module Name & Module state		

Module SIDLE State

Clock Activite State

Power Domain State

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-216: Print_PRCM_Statistics_CPU_Frequency**

Summary:

Print PRCM Statistics CPU Frequency

#:	Step actions:	Expected Results:	Execution notes:	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

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):**Test Case VISIONSDK-217: Print_PRCM_Statistics_Peripherals_Frequency**

Summary:

Print PRCM Statistics Peripherals Frequency

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics	On selecting "6" should print Peripherals Frequency of QSPI & DSS		

Press "6" for Peripherals
Frequency

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

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-218: Print_PRCM_Statistics_Prcm_Register_Data

Summary:

Print PRCM Statistics Prcm Register Data

#:	Step actions:	Expected Results:	Execution notes:	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

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-219: Print_PRCM_Statistics_Power_Consumption

Summary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics	On selecting "8" should print Power Consumption		

Press "8" for Power
Consumption

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

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-220: Print_PRCM_Statistics_All_PRCM_Stats

Summary:

Print PRCM Statistics All PRCM Stats

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
		On selecting "9" should print All PRCM Stats		
		Dpll Status		
		Temperature		
	Go to System Settings -> Print PRCM Statistics	Voltage		
1	Press "9" for All PRCM Stats	Module Power State		
		CPU frequency		
		Peripherals Frequency		
		Prcm register Data		
		Power Consumption		

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

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

1.3.3.5.Test Suite : FATFS

Test Case VISIONSDK-228: File_IO_UC_MMCSd_IPU1_0

Summary:

File IO UC using MMCSd on IPU1_0

Read AppImage 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 notes:	Execution Status:
1	1. Select File IO UC from Menu	No Display On console, Time taken to read & write should be displayed		

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

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

Execution duration (sec):

1.3.3.6.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 notes:	Execution Status:
	Go to System Settings			
1	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 must come up and no buffer drops		

	Display UC	should be observe
3	Press "4" for Demonstrate Task Timer utility	On console should print Global time taken & actual time taken by utility for function

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

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.3.4.Test Suite : IPC_LIB

Test Case VISIONSDK-123: IPC_LIB

Summary:

IPC LIB UC

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Build binaries for all platform with IPC_LIB_INCLUDE=yes

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
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		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build: REL_3_1
 Tester: x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-240: Low_Latency_IPC

Summary:

Low Latency IPC UC

Input : OV10635 sensor

Output : HDMI 1080P

Preconditions:

Build binaries for all platform with IPC_LIB_INCLUDE=yes & WORKQ_INCLUDE=yes

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
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		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

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

Preconditions:

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

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

Execution type: Manual

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

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

Test Case VISIONSDK-224: OpenVX_Tutorials

Summary:

OpenVX Tutorials

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Boot EVM Run OpenVX Tutorials	Tutorials should run automatically		
Execution type:	Manual			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-225: VIP_Capture_OpenVX_Display_Input_OV10635_Output_HDMI_1080P

Summary:

OpenVX Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor	Capture Source should be OV10635 Sensor & Display device as HDMI 1080P		
2	& Display Output as HDMI 1080P Run "VIP Single Channel Capture + OpenVX + Display" UC	Display must come up and no buffer drops should be observe		
Execution type:	Manual			
Estimated exec.	60.00			

duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):

1.5.Test Suite : Multi_Cam

1.5.1.Test Suite : Multi_Channel_LVDS_Capture_Display

Test Case VISIONSDK-22: VIP_4CH_Capture_Display_OV10635_913deser

Summary:

4 Channel Capture Display UC

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 notes:	Execution Status:
	Go to System Settings			
1	Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P On selecting "0"		
2	Run "4CH VIP Capture + Mosaic Display" UC Select "0" For Single channel mode Select "1" For Multi channel mode	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		

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-132: CSI2_4CH_Capture_Display_OV10635_964deser

Summary:

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

Execution type: Automated

Estimated exec.
duration (sec): 60.00

Priority: Medium

Execution Details

Build: REL_3_1

Tester: x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

Test Case VISIONSDK-203: VIP_4CH_Capture_SGX_Mosaic_Display_OV10635_913deser

Summary:

4 Channel Capture SGX Mosaic Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	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

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration
(sec):

1.5.2.Test Suite : AVB_4CH_Capture_Mosaic_Display_AVBTx

Test Case VISIONSDK-116: AVB_4CH_NW_Capture_Mosaic_Disply_AVBTx

Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

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

Input: Throuh Network (using AVB Talker)

Output: HDMI1080P/PC

Preconditions:

Ensure Build happened with NDK_PROC_TO_USE=ipu1_1

Ensure Host PC & target is connected through network cable

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

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

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

#:	Step actions:	Expected Results:	Execution notes:	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	Seeclt HDMI Display + AVB TX	Option should be selected
		Using Talker sent files from PC to target
5	Run avb talker & listener on PC side	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

Execution Details

Build REL_3_1
 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 notes:	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
Using Talker sent files from PC to target |
| 5 | Run avb talker & listener on PC side | 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

Execution Details

Build REL_3_1
 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 TDA2x/TDA2Ex/TDA2Ex Entry

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 notes:	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 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

Execution Details

Build REL_3_1
Tester x0246581
Execution Result: **Passed**
Execution Mode: **Manual**
Execution duration
(sec):

Test Case VISIONSDK-260: AVB_4CH_1MP_H264_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: 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 notes:	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	Select AVB TX	Option should be selected & No display over HDMI Using listener dump frame to PC		
5	Run avb listener on PC side	Run "sudo ./avbtp_listener.sh recv.h264"		

Execution type: Manual
Estimated exec.
duration (sec):
Priority: Medium

Execution Details

Build REL_3_1
 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

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration
 (sec):

1.5.4.Test Suite :

VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display

Test Case VISIONSDK-192: VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display

Summary:

Multi Cam Capture VPE Sync DMA SWMS Display UC

supported on TDA2x/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

On IPU/A15: System EDMA

On DSP: Local DMA

Preconditions:

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
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

Execution Details

Build REL_3_1

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

Summary:

VSDK BIOS different configurations Build

Preconditions:

Follow UG to Install release package

All ti_cmponents (including PDK) should be part of release package

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Navigate to (vsdk_install_path)/vision_sdk/build tda2xx_evm_bios_all & run make -s showconfig	Should display config for		
2	Modify Rules.mk file to other available MAKECONFIG	Should display config for MAKECONFIG selected		

	& run make -s showconfig	
3	run make -s -j depend	Should build binaries without any error
	& then make -s -j	
4	run make -s appimage	should create Appimage
5	run make -s sbl	Should create SBL
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Attached files	<ul style="list-style-type: none"> • BIOS Different Build Config : build_vsdk.sh • build_vsdk.sh 	

Execution Details

Build	REL_3_1
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-250: VSDK_Linux_different_builds

Summary:

VSDK Linux different configurations Build

Preconditions:

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

All ti_cmponents (including PDK) should be part of release package

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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Navigate to (vsdk_install_path)/vision_sdk/build Modify Rules.mk file to MAKECONFIG=tda2xx_evm_linux_all & run make -s showconfig	Should display config for tda2xx_evm_linux_all Memory should be 1024MB		
2	Check config params	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	Should display config for MKAECONFIG selected		

6 & run make -s showconfig
 Repeat step 3 & 4 Should build sucessfully
 Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium
 Attached files

- Linux Different Build Config : build_Linux.sh
- [build_Linux.sh](#)

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

Test Case VISIONSDK-278: VSDK_KW_build

Summary:

VSDK Klocwork Build

Preconditions:

Jenkin Node is up & running

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Login to Jenkin server & trigger VSK_KW_build projet	Should build KW project & sent a report with open criticcal & major MISRA-C issues		

Execution type: Manual
 Estimated exec. duration (sec):
 Priority: Medium

Execution Details

Build REL_3_1
 Tester x0246581
 Execution Result: **Passed**
 Execution Mode: **Manual**
 Execution duration (sec):

1.7.Test Suite : Boot_Modes

1.7.1.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 notes:	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

Execution Details

Build REL_3_1

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 notes:	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

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**Execution duration
(sec):

1.7.2.Test Suite : QSPI_Boot

Test Case VISIONSDK-274: Load_Binaries_using_QSPI

Summary:

Load Binaries using QSPI

Preconditions:

Build Appimage & SBL for QSPI

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

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):

1.7.3.Test Suite : NOR_Boot

Test Case VISIONSDK-276: Load_Binaries_using_NOR

Summary:

Load Binaries using NOR

Preconditions:

Build Appimage & SBL for NOR

#:	Step actions:	Expected Results:	Execution	Execution
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notes: Status:

1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug
2	Follow UG to Flash SBL & AppImage to NOR Discoconnect CCS &	SBL & AppImage should be flashed to NOR
3	Follow UG to set SYSBOOT PIN for NOR Boot	SYSBOOT PIN should be for NOR Boot
4	Boot EVM	EVM should boot with binaries & Display Main Menu

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build REL_3_1

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration
(sec):

1.7.4.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

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot		
2	Boot EVM	EVM should boot with binaries from NFS path & Display Main Menu		

Execution type: Manual

Estimated exec.
duration (sec):

Priority: Medium

Execution Details

Build	REL_3_1
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	