



## Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV\_Test\_Plan\_3\_7\_Functional\_TDA2xx

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2017 (c) Testlink Community

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## **Test Project: VISIONSDK**

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Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

## **Test Plan: PSDKV\_Test\_Plan\_3\_7\_Functional\_TDA2xx**

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TDA2xx Functional Test Plan

Will cover all functional test for tda2xx-evm

## 1.1.Test Suite : Network

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### 1.1.1.Test Suite : TCP/IP

Test Case VISIONSDK-100: NW_Ctrl_cmd_echo			
<u>Summary:</u> Network Control Command "echo"			
<u>Preconditions:</u> verify that host and target can communicate and execute command accordingly Boot with SD card Make network cable connected			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "echo" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_nw		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

	Execute "sys_reset" command using network_ctrl.exe	side	
	#network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>		
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Network Control Command "qspi\_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "qspi_wr" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Network Control Command "mem\_rd"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "mem_rd" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Network Control Command "mem\_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC  Execute "mem_wr" command using network_ctrl.exe  #network_ctrl --ipaddr <ipaddr> [--port <server port>] --cmd <command string> <command parameters>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		

<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

Network Control Command "mem\_save"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

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

<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

Network Rx Display UC

Input : RAW frames

Output : HDMI 1080P

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1263: Null & NullSrc clean-up to move Networking RX/Tx functionalities to new network_rx and network_tx li ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1871: IPv6 support configuration ADASVISION-1908: Networking - Dual Ethernet support on TDA2Px ADASVISION-2016: [networking] A15 performance optimization		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

##### Summary:

Network Rx Decode Display UC

Input : H264Encoded frames

Output : HDMI 1080P

##### Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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



<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

1 Channel capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1263: Null & NullSrc clean-up to move Networking RX/Tx functionalities to new network_rx and network_tx li ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Summary:

4 Channel VIP capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	PASS/FAIL Criteria:	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		
Requirements	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Encode + Network TX (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	

<u>Requirements</u>	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

## 1.1.2.Test Suite : TFDTP

<b>Test Case VISIONSDK-234: NW_Rx_Display_TFDTP</b>			
<u>Summary:</u>			
Network Rx Display UC using TFDTP			
Input : RAW frames			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Binaries should be built with NSP_TFDTP_INCLUDE=yes			
verify that host and target can communicate and execute command accordingly			
Boot with SD card			
Make network cable connected			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1181: Retransmit support in TFDTP receive ADASVISION-1183: TFDTP support on A15 ADASVISION-1908: Networking - Dual Ethernet support on TDA2Px ADASVISION-2016: [networking] A15 performance optimization		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-236: NW_Rx_Decode_Display_H264_Frames_TFDTP</b>			
<u>Summary:</u>			
Network Rx Decode Display UC using TFDTP			
Input : H264Encoded frames			
Output : HDMI 1080P			
<u>Preconditions:</u>			

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

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Decode + Display (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Send H264 Encode frames to target using network_tx.exe # network_tx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
Execution type:		Manual	
Estimated exec. duration (sec):			
Priority:		Medium	
Requirements		ADASVISION-1135: TFDTP integration with VSDK	
Keywords:		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw	
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration</u>			

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

#### Summary:

4 Channel VIP capture + Network Tx UC using TFDTP

#### Preconditions:

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

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

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

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

#### Summary:

Single Channel capture + Encode + Network Tx UC using TFDTP

Preconditions:

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

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Encode + Network TX (TDA2x ONLY)" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rx --host_ip <ipaddr> --target_ip <ipaddr> [--port <server port> --usetfdtp --verbose --no_loop --delay <delay in secs>] --files <CH0 file> <CH1 file>	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in network_rx for the network tools		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.2.Test Suite : SRV

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## 1.2.1.Test Suite : VIP\_SRV

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

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

##### Summary:

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

Input : OV10635 with 913/914 deserializer

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

##### Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration to generate PERSMAT.BIN if required

In case of TDA3x:

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

Run SRV calibration to generate LUT.BIN if required

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

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

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

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements

ADASVISION-1275: VIP Capture Link to support Multi channel capture  
 ADASVISION-1280: VIP Capture Link to support Inline scaling both down scale and upscale  
 ADASVISION-1290: VIP Capture Link - Detect VIP port overflow & Reset  
 ADASVISION-1295: Display Link support for various input data formats  
 ADASVISION-1300: Display Link - Video window positioning support  
 ADASVISION-1308: Display Link - support for custom resolutions  
 ADASVISION-1321: Display Link - Support 8-bit TDM mode display  
 ADASVISION-1582: Shall support LVDS multi-channel capture upto 4 channel  
 ADASVISION-1584: Shall support all the Bios single camera usecases which use one DSP & M4  
 ADASVISION-830: For all SRV - DSP load optimization using SIMD

Keywords:

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

Execution Details	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

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

Input : OV10635 with 913/914 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

In case of TDA3x:

Ensure TDA3x folder not present in SD card

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

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

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

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

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

Execution Details	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

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

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Ensure build binaries with "ULTRASONIC\_INCLUDE=yes"

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

Run SRV calibration to generate PERSMAT.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:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run "5CH VIP Capture + Surround View (DSPx) + Analytics (DSP/EVE) + Ultrasound (DSPx) + HDMI Display (HDMI) (TDA2x ONLY)" UC	Four views should come up in Mosaic  and also stitched output of the four views should be shown  Along with this a mosaic of Edge Detection  and fifth camera view should also come up  Also graphics rendering must be seen	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1388: 5CH LVDS VIP Capture + Surround View (DSPx) + PD/TSR + Display		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Summary:

VIP 2CH 2D SRV UC supported on TDA2x

Input : TIDA0455

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration to generate PERSMAT.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:	PASS/FAIL Criteria:	Execution Status:
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1	Go to System Settings Select Capture Source as & Display Output as HDMI 1080P	Capture Source should be & Display device as HDMI 1080P	
2	Run "2CH VIP Capture (2560x720) + Surround View (DSPx) + Display (TDA2x + TIDA0455 only)" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1560: low cost surround view with TI960H on TDA2x		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

<b>Test Case VISIONSDK-125: VIP_3D_SRV_OV10635_913deser</b>			
<u>Summary:</u>			
VIP 3D SRV UC supported on TDA2x/TDA2Ex/TDA2Px			
Input : OV10635 with 913/914 deserializer			
or OV10640 with 913/914 deserializer (apply IMI kernel patch)			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN			
Run SRV calibration UC if required to generate GPULUT.BIN			
Verify whether display shows a smooth stitching of all 4 cameras.			
All running at 30fps, Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1184: IMI camera Linux kernel patch ADASVISION-1188: GPU application to allow Both fragment and Vertex shader to work in parallel ADASVISION-1417: Open GL support ADASVISION-1418: DRM display ADASVISION-1420: 3D surround view demo ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-1767: SGX- system_egl & system_gb layers to support imported gbm_surfaces for GPU optimization ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-887: Common Linux side Links (including SRV links) for VSDK Linux & InfoAdas ADASVISION-911: Sync on Linux Vision SDK		
<u>Keywords:</u>	tda2xx-evm		

	tda2ex-evm tda2ex-entry tda2px-evm c_regression c_stress c_qualification c_stability m_capture m_display
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

VIP 3D SRV UC supported on TDA2x/TDA2Ex

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

##### Preconditions:

Ensure TDA2x folder not present in SD card

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	It throws error	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1420: 3D surround view demo ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-911: Sync on Linux Vision SDK		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

##### Summary:

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

Input : Imx290 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS 2MP capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1045: 2MP SRV demo ADASVISION-1188: GPU application to allow Both fragment and Vertex shader to work in parallel		
Keywords:	tda2xx-evm c_regression c_stress c_qualification c_stability m_capture m_display		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

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

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

#:	Step actions:	PASS/FAIL Criteria:	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 + 4CH Sfm (3D perception demo - EVE1-4/DSP1&2) + DISPLAY - Only on TDA2xx with HDMI 1080p display" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	

<u>Requirements</u>	ADASVISION-1421: support Combo use-case on Linux ADASVISION-1605: Support 3D perception demo
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

VIP 3D SRV UC supported on TDA2x/TDA2Ex

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	Stop UC	Should stop the UC & display MAin menu	
4	Stop the application (apps.out) & rerun application	should be able to rerun application	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements  
 ADASVISION-1184: IMI camera Linux kernel patch  
 ADASVISION-830: For all SRV - DSP load optimization using SIMD  
 ADASVISION-887: Common Linux side Links (including SRV links) for VSDK Linux & InfoAdas  
 ADASVISION-911: Sync on Linux Vision SDK

Keywords: tda2xx-evm

**Execution Details**

Build REL\_3\_7

Tester x0246581

Execution Result: **Failed**

Execution Mode: **Manual**

Execution duration (sec):

Execution notes  
 ADASVISION-1836: [TDA2Px] Running Back to Back 2MP 3D SRV UC failed  
 Applicable for all sgx based SRV also

## 1.2.2.Test Suite : AVB\_SRV

<b>Test Case VISIONSDK-117: AVB_4CH_NW_Capture_SRV_Disply</b>			
<u>Summary:</u>			
Supported on TDA2x/TDA2Ex/TDA2Ex Entry/TDA2Px both Bios & Linux			
4CH AVB Capture + Surround View (DSPx) + AVB_TX/Display (TDA2x & TDA2Ex ONLY) UC			
Input: Through network (using avbtalker)			
Output: HDMI1080P			
<u>Preconditions:</u>			
Ensure Build happened with NDK_PROC_TO_USE=ipu1_1			
Ensure Host PC & target is connected through network cable			
Run AVB talker in host PC & send MPEG encoded frames to target			
Verify that AVB Receives frames from network,decoder is able to decode the MJPEG frame and Display			
Verify that 4ch AVB Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps on LCD/HDMI			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM should boot up	
2	Select UC	UC should be selected	
3	Select HDMI Display	HDMI display should be selected	
4	Run avb talker on PC side	Using Talker sent files from PC to target Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]"	
5	Press "P"	Check performance stats should match with IVAHD codec performance data	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1165: AVB Ethernet based SRV ADASVISION-1261: Performance tuning for IVAHD codec in system ADASVISION-1283: VIP Capture Link to support DSS write back capture ADASVISION-1319: Display DSS write back Link ADASVISION-1334: IVA Decode Link - Multichannel MJPEG decode ADASVISION-1336: IVA Decode Link - Multichannel H264 decode ADASVISION-1337: IVA Decode Link - Support various Decode resolutions ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates ADASVISION-1362: AVB Rx Link - Packet reception & multi-channel support ADASVISION-1363: AVB Rx Link - frame level Notification ADASVISION-1364: AVB Rx Link - Sub-frame level Notification ADASVISION-1365: AVB Rx Link - Interoperability ADASVISION-1366: AVB Rx Link - Performance ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1394: 4CH AVB Capture + Decode +Surround View (DSPx) + Display ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1452: IVA Encode Link Performance ADASVISION-1453: IVA Encode Link support Subframe/Slice based Encoding ADASVISION-1454: IVA Encode Link support Error-concealment		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm		



	tda2ex-entry tda2px-evm c_regression c_stress c_stability
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

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

Input: Through network (using avbtalker)

Output: PC

##### Preconditions:

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

Ensure Host PC & target is connected through network cable

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

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

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

and no display

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

##### Requirements

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

	ADASVISION-1363: AVB Rx Link - frame level Notification ADASVISION-1364: AVB Rx Link - Sub-frame level Notification ADASVISION-1365: AVB Rx Link - Interoperability ADASVISION-1366: AVB Rx Link - Performance ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1394: 4CH AVB Capture + Decode +Surround View (DSPx) + Display ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1453: IVA Encode Link support Subframe/Slice based Encoding ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1494: DSS M2M RSZ - resizer ADASVISION-1495: DSS M2M RSZ - output dataformat ADASVISION-1496: DSS M2M RSZ - resizer input pipe selection ADASVISION-1497: DSS M2M RSZ - input data format ADASVISION-1498: DSS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1499: DSS M2M RSZ - multi-instance ADASVISION-1500: DSS M2M RSZ - multi-instance with Display link ADASVISION-1501: DSS M2M RSZ - multi-CH support
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_iva
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

## 1.2.3.Test Suite : SRV\_Calibration

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

#### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

#### Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

		PERSMAT.BIN (in case of TDA2x/TDA2ex)	
		LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1762: SRV Auto calibration - auto slection of ROI for Surround View (1MB Vs 2MB) ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D ADASVISION-999: Performance: Complex algorithm should work on shadowed buffers		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_qualification		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

##### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

##### Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	

	depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	
3	Select Manual Calibration & generate CALMAT	should be able to generate CALMAT.BIN	
4	Remove the card &  refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide  to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	Should be able to generate  PERSMAT.BIN (in case of TDA2x/TDA2ex)  & LUT.BIN (in case of TDA3x)	
5	Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)  to MMC/SD card & insert into EVM  & Run any SRV UC	SRV output should be proper	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-984: Calibration: Allow to pass a parameter where all the generated files get read from/written ADASVISION-999: Performance: Complex algorithm should work on shadowed buffers	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build		REL_3_7	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

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

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	
3	Select Default Calibration	On selecting Default calibration  It will generate  PERSMAT.BIN (in case of TDA2x/TDA2ex)  LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	
3	Select Auto Calibration	On selecting Auto calibration  It will detect corners for all 4 cameras & generate  PERSMAT.BIN (in case of TDA2x/TDA2ex)  LUT.BIN (in case of TDA3x)	
4	Select "d" to Save Display Frame to MMC/SD card	On selecting "d"  Display Frame should be saved to MMC/SD card	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1601: SD card file system support with VSDK		

	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D
<b>Keywords:</b>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

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

##### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

##### Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be  OV10635 Sensor 720P30 or  OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or  OV10640 Sensor for SV - IMI (TDA3x ONLY) or  AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)  depending upon the hardware connected  & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras  and no buffer drops should be observe	



3	Select Auto Calibration	On selecting Auto calibration It will detect corners for all 4 cameras & generate PERSMAT.BIN (in case of TDA2x/TDA2ex) LUT.BIN (in case of TDA3x)	
4	Select "7" to Update 2D Pers Mat (after auto/manual calibration if required)	On selecting "7" 2D Pers Mat should be updated	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
<b>Execution Details</b>			
Build		REL_3_7	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

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

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

Boot from QSPI

No MMC/SD card present

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

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

##### Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

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

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

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

	(TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
2	Run "SRV Calibration" UC	It throws error	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.2.4.Test Suite : Adaptive\_Bowl

<b>Test Case VISIONSDK-251: VIP_3D_SRV_OV10635_913deser_Change_Bowl_position</b>			
<u>Summary:</u> VIP 3D SRV UC supported on TDA2x/TDA2Ex Input : OV10635 with 913/914 deserializer Output : HDMI 1080P			
<u>Preconditions:</u> Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN Run SRV calibration UC if required to generate GPULUT.BIN Verify whether display shows a smooth stitching of all 4 cameras. All running at 30fps, Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	Chnage Bowl postion	User should be able to change Bowl position	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1082: Dynamic bowl creation support in 3D Surround View on TDA2x and TDA2x+ ADASVISION-1691: Adaptive Bowl SRV: Add Ultrasonic drivers ADASVISION-1870: Adaptive 3D SRV - enhancements ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-887: Common Linux side Links (including SRV links) for VSDK Linux & InfoAdas ADASVISION-911: Sync on Linux Vision SDK		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-252: VIP_2MP_3D_SRV_Imx290_913deser_change_Bowl_Position</b>			
<u>Summary:</u> VIP 2MP 3D SRV UC supported on TDA2x/TDA2Ex Input : Imx290 with 913/914 deserializer Output : HDMI 1080P			
<u>Preconditions:</u> Ensure TDA2x folder present in SD card with CHARTPOS.BIN & LENS.BIN			

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS 2MP capture + 3D SRV (SGX/A15) + DISPLAY - Only HDMI 1080p display supported" UC	Display must come up and no buffer drops should be observe	
3	Change Bowl position	User should be able to change Bowl position	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1045: 2MP SRV demo ADASVISION-1082: Dynamic bowl creation support in 3D Surround View on TDA2x and TDA2x+ ADASVISION-1870: Adaptive 3D SRV - enhancements		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.2.5.Test Suite : FastBoot\_SRV

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

#### Summary:

FastBoot VIP 3D SRV UC supported on TDA2x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

#### Preconditions:

Build Linux Binaries with early use-case flag

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

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM with Linux early use-case enabled binaries	EVM should boot successfully with Linux early use-case binaries Should start capture from one of the camera of multi deserializer & weston on background	
2	Check Boot time	Boot time should match with release number	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

#### Requirements

ADASVISION-1270: Support VSDK Linux Fast boot & Early SRV  
 ADASVISION-1422: Fast boot  
 ADASVISION-1911: VSDK Linux - Early Boot Sample usecase  
 ADASVISION-2049: IVI applications must run on omapdrm and vdrm  
 ADASVISION-830: For all SRV - DSP load optimization using SIMD  
 ADASVISION-887: Common Linux side Links (including SRV links) for VSDK Linux & InfoAdas  
 ADASVISION-911: Sync on Linux Vision SDK

Keywords: tda2xx-evm

#### Execution Details

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

### Test Case VISIONSDK-359: FastBoot\_VIP\_3D\_SRV\_OV10635\_913deser\_Qspi

#### Summary:

FastBoot VIP 3D SRV UC supported on TDA2x

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

Preconditions:

Build Linux Binaries with early use-case flag

Load into Qspi & Boot

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

Run SRV calibration UC if required to generate GPULUT.BIN

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux early use-case enabled binaries	EVM should boot successfully with Linux early use-case binaries  Should start capture from one of the camera of multi deserializer & weston on background	
2	Check Boot time	Boot time should match with release number	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-2012: Early boot support on QSPI		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.Test Suite : Mono\_Cam

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### 1.3.1.Test Suite : VIP

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

##### Test Case VISIONSDK-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:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor  & Display Output as 7" LCD	Capture Source shuld 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		
Requirements	ADASVISION-1274: VIP Capture Link to support Single channel capture ADASVISION-1291: VIP Capture Link to support Cropping of output video ADASVISION-1305: Display Link - LCD display support ADASVISION-1311: Display Link - Color keying support ADASVISION-1312: Display Link - Set back Ground Color of VENC ADASVISION-1316: Display Link - LCD timing configuration ADASVISION-1318: Display Link - VENC section ADASVISION-1322: Support OV10635 video sensors ADASVISION-1330: support LCD displays ADASVISION-1332: Set Brightness levels of LCD display ADASVISION-1381: 1CH VIP capture + Display		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_capture m_display		
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635 Sensor  & Display Output as HDMI 720P	Capture Source shuld be OV10635 Sensor  & Display device as HDMI 720P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	

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

Requirements

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

Keywords:

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

**Execution Details**

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**Test Case VISIONSDK-5: VIP\_Capture\_Display\_Input\_OV10635\_Output\_HDMI\_1080P**Summary:

Capture Display UC

supported on all platforms

Input : OV10635/OV10640

Output : HDMI 1080P

Preconditions:

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

should not change Capture output dynamically

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635	Capture Source shuld be OV10635  & Display device as HDMI 1080P	

	& Display Output as HDMI 1080P		
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Check for graphics elements displayed on screen	TI logo should be on left top corner All load bars should be on left bottom corner	
4	Press "P"	Check performance stats Should print CPU Load of all cores, Capture & Display FPS numbers DDR, Heap memory, OCMC, SR1, remote log buffer memory usage	
Execution type:		Automated	
Estimated exec. duration (sec):		60.00	
Priority:		Medium	
Requirements		ADASVISION-1090: Update TI logo ADASVISION-1274: VIP Capture Link to support Single channel capture ADASVISION-1279: VIP Capture Link to support Sensor capture ADASVISION-1281: VIP Capture Link -VIP capture with Dynamic output resolution change will not be supported ADASVISION-1284: VIP Capture Link to support Non-mux Discrete sync Hsync style capture modes ADASVISION-1285: VIP Capture Link to support Non-mux Discrete sync ACTVID style capture modes ADASVISION-1287: VIP Capture Link to support 8 bit, 16bit & 24bit Capture bus width ADASVISION-1288: VIP Capture Link to support Progressive mode capture ADASVISION-1298: Display Link - Progressive mode display ADASVISION-1301: Display Link - Dynamic resolution change of input video ADASVISION-1303: Display Link - Dynamic output image resolution change ADASVISION-1306: Display Link - HDMI display support ADASVISION-1309: Display Link - Blending support of Grpx and Video planes ADASVISION-1310: Display Link - Blending support for Video planes ADASVISION-1311: Display Link - Color keying support ADASVISION-1312: Display Link - Set back Ground Color of VENC ADASVISION-1318: Display Link - VENC section ADASVISION-1322: Support OV10635 video sensors ADASVISION-1329: Shall support multiple dsiplay devices - HDMI (on-chip) & LCD displays ADASVISION-1381: 1CH VIP capture + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1529: Multiple heap support ADASVISION-1530: Cache configuration ADASVISION-1531: Memory config ADASVISION-1532: External Memory allocation ADASVISION-1533: Internal memory allocation from OCMC ADASVISION-1534: Internal memory allocation from DSP L2 SRAM at create time only, no run time allocation and de-alloc ADASVISION-1535: Internal memory allocation from DSP L1 SRAM ADASVISION-1581: TDA2Ex - shall support single channel capture ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4 ADASVISION-1604: Support sensor frame work	
Keywords:		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_stress c_performance c_qualification c_stability	
Execution Details			
Build	REL_3_7		
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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor  & Display Output as 10" LCD	Capture Source should be OV10635 Sensor  & Display device as 10" LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1274: VIP Capture Link to support Single channel capture ADASVISION-1305: Display Link - LCD display support ADASVISION-1329: Shall support multiple display devices - HDMI (on-chip) & LCD displays		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_integration		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**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

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

	ADASVISION-1305: Display Link - LCD display support
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

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

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1407: vision SDK with Linux on A15 ADASVISION-1411: shall support IPC links on A15 linux ADASVISION-1412: support links & chain on Linux ADASVISION-1413: support processing Links on Linux ADASVISION-1414: support chains (usecases) on Linux ADASVISION-1415: Resource sharing between Linux and other CPUs ADASVISION-1416: Linux boot loader ADASVISION-1419: VSDK Linux support simple capture + display ADASVISION-1424: Basic board configuration bringup using u-boot/Linux ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1581: TDA2Ex - shall support single channel capture ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-1601: SD card file system support with VSDK ADASVISION-1604: Support sensor frame work ADASVISION-831: VSDK Linux - Display device & sensors configure from M4/Bios with a dedicated I2C ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex ADASVISION-99: Splitting of header files required for InfoADAS		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_stress c_qualification c_stability m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

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

#### Summary:

Capture Display UC without sensor connected

supported on all platforms

Input : No Sensor connected

Output : HDMI 1080P

#### Preconditions:

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

None of the sensors are connected

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Assert with sensor initialization fails	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1167: Error handling requirements ADASVISION-1526: Error handling		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

#### Summary:

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

Input : OV10635

Output : HDMI 1080P

DTB: lcd.dtb

#### Preconditions:

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

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

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

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1407: vision SDK with Linux on A15 ADASVISION-1411: shall support IPC links on A15 linux ADASVISION-1412: support links & chain on Linux ADASVISION-1413: support processing Links on Linux ADASVISION-1414: support chains (usecases) on Linux ADASVISION-1415: Resource sharing between Linux and other CPUs ADASVISION-1416: Linux boot loader ADASVISION-1419: VSDK Linux support simple capture + display ADASVISION-1424: Basic board configuration bringup using u-boot/Linux ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-1601: SD card file system support with VSDK ADASVISION-1651: LG 10 inch LCD display support for VSDK-Linux ADASVISION-831: VSDK Linux - Display device & sensors configure from M4/Bios with a dedicated I2C ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex ADASVISION-99: Splitting of header files required for InfoADAS
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_stress c_qualification c_stability m_capture m_display
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-355: VIP\_Capture\_SGX\_Copy\_Display\_IPUMM\_Binaries

##### Summary:

Capture SGX copy Display UC supported on TDA2x Linux

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux IPUMM binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1971: VSDK validation on IPU1 with IPUMM on IPU-2		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

**Test Case VISIONSDK-6: VIP\_Capture\_FrameCopy\_A15\_Display**Summary:

Capture FrameCopy Display UC on A15

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (A15) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1384: 1CH VIP capture + Alg Frame Copy (A15) + Display ADASVISION-1552: Algorithm Link Support System DMA resource allocations ADASVISION-1554: Algorithm Link Support Non-In place computation support ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins)		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Capture FrameCopy Display UC on DSP1

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (DSP1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1382: 1CH VIP capture + Alg Frame Copy (DSP1) + Display		



	ADASVISION-1550: Algorithm Link Support DSP subsystem DMA resource allocations ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins) ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4
<b>Keywords:</b>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_algorithm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<b>Execution Result:</b>	<b>Passed</b>
<b>Execution Mode:</b>	<b>Manual</b>
<b>Execution duration (sec):</b>	

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

##### Summary:

Capture FrameCopy Display UC on EVE1

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<b>Execution type:</b>	Automated		
<b>Estimated exec. duration (sec):</b>	60.00		
<b>Priority:</b>	Medium		
<b>Requirements</b>	ADASVISION-1383: 1CH VIP capture + Alg Frame Copy (EVE1)+ Display ADASVISION-1551: Algorithm Link Support EVE subsystem DMA resource allocations ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins)		
<b>Keywords:</b>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<b>Execution Result:</b>	<b>Passed</b>		
<b>Execution Mode:</b>	<b>Manual</b>		
<b>Execution duration (sec):</b>			

#### 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:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Alg Frame Copy (A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Capture FrameCopy SGX copy Display UC on EVE1

supported on TDA2x Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Alg FrameCopy (EVE1) + SGX Copy + DISPLAY - (TDA2xx ONLY)" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-178: EVE loader update to use SBL lib and PM lib ADASVISION-2205: Eve loader should support 900 MHz EVE operation sequence ADASVISION-890: EVE loader should use SBL lib and PM lib for loading application images and clock configuration ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex		
<u>Keywords:</u>	tda2xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

**Test Case VISIONSDK-202: VIP\_Capture\_FrameCopy\_A15\_Connetor\_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:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP + Alg Frame Copy (A15) + Connetor Links (Dup, Merge, Select, Gate on A15) + SGX Copy + DISPLAY" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1407: vision SDK with Linux on A15 ADASVISION-1411: shall support IPC links on A15 linux ADASVISION-1412: support links & chain on Linux ADASVISION-1413: support processing Links on Linux ADASVISION-1414: support chains (usecases) on Linux ADASVISION-1415: Resource sharing between Linux and other CPUs ADASVISION-886: Enable all connector links for VSDK Linux ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_connector_links		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**1.3.1.3.Test Suite : VIP\_Capture\_SubFrameCopy\_Display****Test Case VISIONSDK-168: VIP\_Capture\_SubFrameCopy\_EVE1\_Display**Summary:

Capture Sub Frame Copy Display UC with EVE1

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + SubFrameCopy (EVE1) + Display UC	Display must come up and no buffer drops should be observe	

<u>Execution type:</u>	Automated
<u>Estimated exec. duration (sec):</u>	60.00
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1292: VIP Capture Link to support Slice/sub-frame wise capture
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

<b>Test Case VISIONSDK-230: VIP_Capture_IPC_Display_Single_core</b>			
<u>Summary:</u>			
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			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Capture IPC Display UC  Capture should be running on IPU1-0 at 30fps and  Display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1398: IPC between M4s ADASVISION-1399: IPC between DSPs ADASVISION-1400: IPC between EVEs ADASVISION-1401: IPC between M4 & A15 ADASVISION-1402: IPC between M4 & DSP ADASVISION-1403: IPC between M4 & EVE ADASVISION-1404: IPC between DSP & A15 ADASVISION-1405: IPC between DSP & EVE ADASVISION-1406: IPC between EVE & A15		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry		

	tda2px-evm m_ipc
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

Capture IPC Display UC with Multi core

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Scenrios:

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

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

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

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

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

##### Preconditions:

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

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

##### Requirements

ADASVISION-1398: IPC between M4s  
 ADASVISION-1399: IPC between DSPs  
 ADASVISION-1400: IPC between EVEs  
 ADASVISION-1401: IPC between M4 & A15  
 ADASVISION-1402: IPC between M4 & DSP  
 ADASVISION-1403: IPC between M4 & EVE  
 ADASVISION-1404: IPC between DSP & A15  
 ADASVISION-1405: IPC between DSP & EVE  
 ADASVISION-1406: IPC between EVE & A15  
 ADASVISION-1410: shall support link sendcmd across all cores

##### Keywords:

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

##### **Execution Details**

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

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

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

Single Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	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		
Requirements	ADASVISION-1553: Algorithm Link Support In place computation support ADASVISION-1558: Support Sample Algorithm Link (Color to Gray Plug-Ins) with inplace buffer processing		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

Single Cam Capture DSSWB Display UC

supported on TDA2x/TDA2Ex

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Run Testsuite	Check Logs of Capture DSSWB Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1283: VIP Capture Link to support DSS write back capture ADASVISION-1319: Display DSS write back Link	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda2ex-entry	

	tda2px-evm c_qualification
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

<b>Test Case VISIONSDK-189: VIP_Capture_VPE_Display</b>			
<u>Summary:</u>			
Single Cam Capture VPE Display UC			
supported on TDA2x/TDA2Ex/TDA3x			
Input : OV10635 Sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Capture VPE Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1369: VPE link to support scaling of input video ADASVISION-1370: VPE link to support de-interlacing ADASVISION-1371: VPE link to support multiple output queues ADASVISION-1372: VPE link to support Multi instance ADASVISION-1373: VPE link to support input type progressive ADASVISION-1374: VPE link to support various Input Data Formats ADASVISION-1375: VPE link to support various output data format ADASVISION-1376: VPE link to support De-interlaced enable/disable ADASVISION-1377: VPE link to support input resolution change ADASVISION-1378: VPE link to support output resolution change ADASVISION-1379: VPE link to support frame rate down sampling		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm m_vpe		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

<b>Test Case VISIONSDK-9: VIP_Capture_Edge_detect_Display</b>	
<u>Summary:</u>	
VIP Capture Edge Detect Display UC with EVE1	
Input : OV10635	

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Edge Detect (EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1385: 1CH VIP capture + Edge Detect (EVE1) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

VIP Capture DOE Display UC with 1 Pyramid

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Dense Optical Flow (EVE1) + Display UC with 1 Pyramid	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1386: 1CH HDMI capture + Dense Optical Flow (EVE1) + Display ADASVISION-1554: Algorithm Link Support Non-In place computation support		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			



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

VIP Capture DOF Display UC with 2 Pyramid

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Dense Optical Flow (EVEx) + Display UC with 2 Pyramid	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1386: 1CH HDMI capture + Dense Optical Flow (EVEx) + Display		
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**1.3.1.9.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:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + ENC + DEC + Display UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1035: Display link to support cropping feature		

	ADASVISION-1333: IVA Decode Link - MJPEG decode ADASVISION-1337: IVA Decode Link - Support various Decode resolutions ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates ADASVISION-1339: IVA Decode Link - Performance ADASVISION-1340: IVA Decode Link - Subframe/Slice based decoding ADASVISION-1341: IVA Decode Link - Error-concealment ADASVISION-1342: IVA Decode Link - Output data format YUV420SP ADASVISION-1446: IVA Encode Link support MJPEG encode ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP ADASVISION-2011: [IVA] Support for 617 MHz TDA2eex PRCM sequence
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

#### Summary:

VIP Capture Encode Decode Display UC with H264 Frames

Input : OV10635

Output : HDMI 1080P

#### Preconditions:

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

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

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

#### Requirements

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

<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

VIP Capture Encode Decode SGX copy Display UC with MJPEG Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Encode + Decode + SGX Copy + DISPLAY" UC & select "0" for MJPEG Frames	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		

##### Requirements

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

<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

VIP Capture Encode Decode SGX copy Display UC with H264 Frames

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP capture + Encode + Decode + SGX Copy + DISPLAY" UC & select "1" for H264	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats  should match with IVAHD codec performance data	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1261: Performance tuning for IVAHD codec in system ADASVISION-1448: IVA Encode Link support H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification m_iva		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Single Cam Capture + Dual Display UC

Input : OV10635

Output : 7" LCD &amp; HDMI

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635 Sensor & Display Output as 7" LCD	Capture Source should be OV10635 Sensor & Display device as 7" LCD	
2	Run 1 Ch VIP capture + Dual Display UC	Display must come up on LCD & HDMI and no buffer drops should be observe	
<u>Execution type:</u>		Automated	
<u>Estimated exec. duration (sec):</u>		60.00	

<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1304: Display Link - Display Multi instance support ADASVISION-1305: Display Link - LCD display support ADASVISION-1306: Display Link - HDMI display support
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

Single Cam Capture + Dual Display UC

Input : OV10635

Output : 10" LCD & HDMI

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 10" LCD	Capture Source should be OV10635 Sensor & Display device as 10" LCD	
2	Run 1 Ch VIP capture + Dual Display UC	Display must come up on LCD & HDMI and no buffer drops should be observe	

<u>Execution type:</u>	Automated
<u>Estimated exec. duration (sec):</u>	60.00
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1304: Display Link - Display Multi instance support ADASVISION-1305: Display Link - LCD display support ADASVISION-1306: Display Link - HDMI display support
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

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

##### Summary:

Capture Display UC with DUAL A15 SMP BIOS

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Run other available UCs	Should be able to run UCs without any issues	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1588: Shall support Dual A15 of TDA2x		
Keywords:	tda2xx-evm		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

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

Summary:

Capture Safe FrameCopy Display UC on A15

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source shuld be OV10635  & Display device as HDMI 1080P	
2	Run "1CH VIP capture + Safe Frame Copy (A15) + Display" UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1503: ESM support ADASVISION-1504: DAP MPU support ADASVISION-1510: DCC support		
Keywords:	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as LCD	Capture Source should be HDMI & Display device as LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1305: Display Link - LCD display support ADASVISION-1323: capture from HDMI source ADASVISION-1330: support LCD displays ADASVISION-1331: support for HDMI (off chip) via ADV chip		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_capture m_display		
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	Execution
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			<u>Status:</u>
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI	Capture Source should be HDMI & Display device as HDMI	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1286: VIP Capture Link to support Non-mux Embedded sync capture modes ADASVISION-1287: VIP Capture Link to support 8 bit, 16bit & 24bit Capture bus width ADASVISION-1288: VIP Capture Link to support Progressive mode capture ADASVISION-1296: Display Link - Display support for ARGB 16/24/32 bit data formats ADASVISION-1298: Display Link - Progressive mode display ADASVISION-1300: Display Link - Video window positioning support ADASVISION-1302: Display Link - Active video channel selection ADASVISION-1306: Display Link - HDMI display support ADASVISION-1315: Display Link - Digital Output data format with discrete sync ADASVISION-1318: Display Link - VENC section ADASVISION-1323: capture from HDMI source ADASVISION-1331: support for HDMI (off chip) via ADV chip		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_qualification c_integration		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

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

<u>Requirements</u>	ADASVISION-1389: 1CH HDMI capture + Sparse Optical Flow (EVE) + Display
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

HDMI Capture Lane Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + Lane Detect (DSP1 + EVE1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1391: 1CH HDMI capture + Lane Detection (DSP+EVE) + Display		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

HDMI Capture Traffic Light Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as HDMI	Capture Source should be HDMI & Display device as HDMI 1080P	

	& Display Output as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + Traffic Light Recognition (TLR) (DSP1) + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1323: capture from HDMI source ADASVISION-1331: support for HDMI (off chip) via ADV chip		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

HDMI Capture Pedestrian Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + PD + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1390: 1CH HDMI capture + Pedestrian Detection (EVE+DSP) + Display ADASVISION-2129: Update OD demo to provide adaboost weights externally		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

## HDMI Capture Traffic Sign Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + TSR + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1392: 1CH HDMI capture + Traffic sign detection (DSP1 + DSP2) + Display ADASVISION-2129: Update OD demo to provide adaboost weights externally		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

HDMI Capture Vehicle Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source should be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + VD + Display UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1323: capture from HDMI source ADASVISION-2129: Update OD demo to provide adaboost weights externally		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		

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

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

HDMI Capture Pedestrian, Traffic Sign, Vehicle Detect Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as HDMI  & Display Output as HDMI 1080P	Capture Source should be HDMI  & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + PD+TSR+VD + Display UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1555: Algorithm Link Support Multiple Algos ADASVISION-2129: Update OD demo to provide adaboost weights externally		
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm m_algorithm		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

HDMI Capture FrontCam Analytics Display UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as HDMI  & Display Output as HDMI 1080P	Capture Source should be HDMI  & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observe	

<u>Execution type:</u>	Automated
<u>Estimated exec. duration (sec):</u>	60.00
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1380: Support ISS based Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc) ADASVISION-1542: Algorithm Link Support (Framework and Skeleton portion) ADASVISION-1543: Algorithm Link Support for all CPU cores ADASVISION-1544: Algorithm Link Support Prioritization ADASVISION-1545: Algorithm Link Support Multiple instantiation ADASVISION-1546: Algorithm Link Support Multiple input and output queues ADASVISION-1547: Algorithm Link Support Multiple input channels ADASVISION-1548: Algorithm Link Support Out of order release of input and output buffers ADASVISION-1549: Algorithm Link Support Memory allocations ADASVISION-1555: Algorithm Link Support Multiple Algos ADASVISION-1556: Algorithm Link Support Alg Configurations ADASVISION-1602: Support Image pyramid using ISS ADASVISION-1603: support for Image pyramid using VPE ADASVISION-1607: EU-NCAP demo support with TDA2X/3X
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm c_stress c_stability m_algorithm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.3.Test Suite : TIDL

#### 1.3.3.1.Test Suite : SemSeg

##### Test Case VISIONSDK-295: Semantic\_Segmentation

###### Summary:

Semantic Segmentation UC

Check Performance numbers

###### Preconditions:

Verify below files should be present in SD card

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Select Semantic Segmentation UC from TIDL Menu	Display should come up with algrthim running	
2	Press "P" to check performance numbers	Should be running at 10-15 fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-981: Need benchmarking of various CNN networks on TDA2+		
<u>Keywords:</u>	tda2xx-evm tda2px-evm c_performance		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

##### Test Case VISIONSDK-158: TIDL\_File\_IO\_UC\_DSP\_Performance

###### Summary:

TIDL File IO UC on DSP:

Check Performance numbers

###### Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)

2. IN.RGB

3. PRM.BIN

4. NET.BIN

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	1. Select TIDL File IO UC from Main Menu  2. Select DSP  3. Select Dump Output frmaes to file	Frame will be dumped to SD card as OUT.BIN	
2	Press "P" to check performance numbers	On DSP should be <=120sec	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x		
Keywords:	tda2xx-evm tda3xx-evm c_performance		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

TIDL File IO UC on DSP:

Dumping frmaes to File

Preconditions:

Verify below files should be present in SD card

1. Use case config file (TIDLCFG.TXT)

2. IN.RGB

3. PRM.BIN

4. NET.BIN

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	1. Select TIDL File IO UC from Main Menu  2. Select DSP  3. Select Dump Output frmaes to file	Frame will be dumped to SD card as OUT.BIN	
2	Compare with Reference output	On comparing no differences should be seen	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x		
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_7		



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

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

TIDL File IO UC on DSP:

Free Run

Preconditions:

Verify below files should be present in SD card

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	1. Select TIDL File IO UC from Main Menu 2. Select DSP 3. Select Free run	No Display & also No Frame will be dumped to SD card	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	<b>Passed</b>		
Execution Mode:	<b>Manual</b>		
Execution duration (sec):			

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

TIDL File IO UC on EVE:

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	1. Select TIDL File IO UC from Main Menu	Frame will be dumped to SD card as OUT.BIN	

	2. Select EVE		
	3. Select Dump Output frmaes to file		
2	Press "P" to check performance numbers	On EVE should be <=450sec	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm c_performance		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

TIDL File IO UC on EVE:

Dump frames to file

Preconditions:

Verify below files should be present in SD card

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	1. Select TIDL File IO UC from Main Menu 2. Select EVE 3. Select Dump Output frmaes to file	Frame will be dumped to SD card as OUT.BIN	
2	Compare with Reference output	On comparing no differences should be seen	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

TIDL File IO UC on EVE:

Free Run

Preconditions:

Verify below files should be present in SD card

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	1. Select TIDL File IO UC from Main Menu  2. Select EVE  3. Select Free run	No Display & also No Frame will be dumped to SD card	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x		
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

**1.3.3.3.Test Suite : TIDL\_OD****Test Case VISIONSDK-333: TIDL\_Object\_Detection**Summary:

TIDL Object Detection UC

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	1. Select TIDL Object Detection UC from TIDL Menu	Display should come up with algrthim running	
2	Press "P" to check performance numbers	Should be running at 10-15 fps	
<u>Execution type:</u>		Manual	

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-1768: TIDL deep learning demo for object detection ADASVISION-2021: TIDL Alg link support to pass output meta data format to next link ADASVISION-2024: Implement and include post processing on TI SSD for customer demos ADASVISION-981: Need benchmarking of various CNN networks on TDA2+
<u>Keywords:</u>	tda2xx-evm tda2px-evm c_performance
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.4.Test Suite : MISC

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

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

###### Summary:

Null Src Null UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: MJPEG Bitstream

Output : Null

###### Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Run Testsuite	Check Logs of Null Src Null UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1263: Null & NullSrc clean-up to move Networking RX/Tx functionalities to new network_rx and network_tx li ADASVISION-1522: Dummy Sink (Null Link) ADASVISION-1523: Dummy source (NullSrc Link)		
Keywords:	tda2xx-evm m_connector_links		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

###### Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: MJPEG Bitstream

Output : HDMI 1080P

###### Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Run Testsuite	Check Logs of Null Src Decode Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<b>Execution type:</b>		Manual	

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1523: Dummy source (NUIISrc Link)
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-183: NullSrc\_Decompose\_Display\_H264\_Frames

##### Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: H264 Bitstream

Output : HDMI 1080P

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Null Src Decode Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1523: Dummy source (NUIISrc Link)		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

##### Summary:

Null Src Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: YUV420SP

Output : HDMI 1080P

##### Preconditions:

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

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

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

Null Src Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input Data Format: YUV422I

Output : HDMI 1080P

Preconditions:

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

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

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)
<u>Keywords:</u>	tda2xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input Data Format: MJPEG Bitstream

Output : HDMI 1080P

Preconditions:

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

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

2	Run "NullSrc + Decode + Display (Only 1920x1080 H264/MJPEG Video Input Bit-Stream Supported)" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

##### Summary:

Null Src Decode Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input Data Format: H264 Bitstream

Output : HDMI 1080P

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Decode + Display (Only 1920x1080 H264/MJPEG Video Input Bit-Stream Supported)" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1523: Dummy source (NullSrc Link)		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.4.2.Test Suite : SyncLink

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

##### Summary:

Single Cam Capture Sync Null UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : Null

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
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1	Run Testsuite	Check Logs of Capture Sync Null UC  Capture should be running on IPU1-0 at 30fps and  display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1518: Synchronization of frames across multiple channels		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.4.3.Test Suite : DupLink

<b>Test Case VISIONSDK-165: VIP_Capture_Dup_Display</b>			
<u>Summary:</u>			
Single Cam Capture Dup Display UC			
supported on TDA2x/TDA2Ex/TDA3x			
Input : OV10635 Sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of Capture Dup Display UC  Capture should be running on IPU1-0 at 30fps and  display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1519: duplication of output		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.4.4.Test Suite : MergeLink

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

Single Cam Capture Merge Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Run Testsuite	Check Logs of Capture Merge Display UC  Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1520: Merging of multiple outputs		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Press "P"	It should print all performance statistics 1. Load on all cores 2. DDR BW usage 3. FPS for each Link 4. Latency to process frames	

<u>Execution type:</u>	Automated
<u>Estimated exec. duration (sec):</u>	60.00
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1536: System debug logs ADASVISION-1537: Statistics logs ADASVISION-1538: latency measurement ADASVISION-1539: system loading ADASVISION-1540: DDR BW measurement ADASVISION-1541: Global timestamp ADASVISION-1563: Vision SDK Print Statistics for PM
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

Print PRCM Statistics Dpll Status

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "1" for Dpll Status	On selecting "1" should print DPLL Statistics	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1562: power managemant - Profiling Support for Actual CPU idle time ADASVISION-1563: Vision SDK Print Statistics for PM		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Temperature

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>

1	Go to System Settings -> Print PRCM Statistics  Press "2" for Temperature	On selecting "2" should print current min & max temperature on all cores	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Voltage

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics  Press "3" for Voltage	On selecting "3" should print voltage usage	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Module Power State

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	<p>Go to System Settings -&gt; Print PRCM Statistics</p> <p>Press "4" for Module Power State</p>	<p>On selecting "4" should print Module Power State</p> <p>Module Name &amp; Module state</p> <p>Module SIDLE State</p> <p>Clock Activite State</p> <p>Power Domain State</p>	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1561: power mamagemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	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		
Requirements	ADASVISION-1561: power mamagement Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_7		
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:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "6" for Peripherals Frequency	On selecting "6" should print Peripherals Frequency of QSPI & DSS	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Print PRCM Statistics Prcm Register Data

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "7" for Prcm Register Data	On selecting "6" should print Prcm Register Data of all POWER DOMAIN Reg. Address & Value	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

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

#### Summary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "8" for Power Consumption	On selecting "8" should print Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

#### Summary:

Print PRCM Statistics All PRCM Stats

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "9" for All PRCM Stats	On selecting "9" should print All PRCM Stats  Dpll Status  Temperature  Voltage  Module Power State  CPU frequency  Peripherals Frequency  Prcm register Data  Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1536: System debug logs		

	ADASVISION-1537: Statistics logs ADASVISION-1538: latency measurement ADASVISION-1539: system loading ADASVISION-1540: DDR BW measurement ADASVISION-1541: Global timestamp ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.4.6.Test Suite : FATFS

<b>Test Case VISIONSDK-228: File_IO_UC_MMCS_D_IPU1_0</b>			
<u>Summary:</u>			
File IO UC using MMCS_D on IPU1_0			
Read ApplImage from SD card &			
write back same to SD card			
<u>Preconditions:</u>			
Verify FATFS running IPU1_0			
Build SDK with FATFS flags enabled & NDK disabled and FATFS lib on IPU1_0			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	1. Select File IO UC from Menu	No Display  On console, Time taken to read & write should be displayed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1524: Dummy source with file read ADASVISION-1595: Support for FAT File system with MMC/SD card. (When networking is enabled FAT FS is disabled) ADASVISION-1601: SD card file system support with VSDK ADASVISION-743: FAT FS throughput measurements and optimizations		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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



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

Limp Home Mode UC

Input : HDMI

Output : HDMI 1080P

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as HDMI  & Display Output as HDMI 1080P	Capture Source should be HDMI  & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observed	
3	Press "t"	Should Show Thermal Configuration Menu	
4	Choose below listed options one by one by one  1: Change THOT Temperature  2: Change TCOLD Temperature  3: Show current THOT Temperature  4: Show current TCOLD Temperature  5: Change Threshold Step Size  6: Show Limp Home Status  7: Switch to Limp Home Mode  8: Return to Normal Usecase Mode  x: Exit Thermal Menu	Option should be selected  On pressing "1" should display temperature to change ranging from 10 -100 deg c  On pressing "2" should display temperature to change ranging from 10 -100 deg c  On pressing "3" should display current THOT temperature  On pressing "4" should display current TCOLD temperature  On pressing "5" should display temperature to change ranging from 3 - 15 deg c  On pressing "6" should display current Limp Home Status (Limp Home Mode = ACTIVE!! or IN-ACTIVE!! should display on console)  On pressing "7" should switch to Limp Home Mode  On pressing "8" Return to Normal Usecase Mode  On pressing "x" should Exit from Thermal menu	

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

Requirements  
 ADASVISION-1527: API config outbound check  
 ADASVISION-1568: PM - Limp Home Mode on Vision SDK  
 ADASVISION-1569: PM - VSDKLIMPHOME: Demonstration of Limp Home  
 ADASVISION-1607: EU-NCAP demo support with TDA2X/3X

Keywords:  
 tda2xx-evm  
 tda3xx-evm  
 tda2px-evm

**Execution Details**

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**1.3.4.8.Test Suite : Task\_time\_measure\_utility**

**Test Case VISIONSDK-289: VIP\_Capture\_Display\_task\_time\_measure\_utility**Summary:

Capture Display UC

supported on all platforms

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Press "4" for Demonstrate Task Timer utility	On console should print Global time taken & actual time taken by utility for function	

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

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**1.3.4.9.Test Suite : Stereo\_UC****Test Case VISIONSDK-303: 2CH\_LVDS\_Capture\_VPE\_Stereo\_Display**Summary:

2CH LVDS Capture + VPE + Stereo + Display UC

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings	Capture Source should be OV10635	

	Select Capture Source as OV10635 & Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run "2CH LVDS capture + VPE + Stereo (DSPx, EVEx) + Display (HDMI)" UC	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1325: support LVDS capture ADASVISION-1361: Selective builds for following links - VPE, ISS ADASVISION-1432: Integrate statistics on Stereo ISP ADASVISION-1433: Integrate 2A support on Stereo ISP ADASVISION-1434: Stereo ISP tuning for AR0132 stereo sensros ADASVISION-1437: TISMO integration on DSP (C66x) ADASVISION-1438: Stereo capture use case implementation ADASVISION-1439: Stereo output interpolation and display ADASVISION-1440: Stereo performance benchmarking		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-304: 2CH\_LVDS\_Capture\_Stereo\_Auto\_Calibration**Summary:

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

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run "2CH LVDS capture + VPE + Stereo Rectification + Display (HDMI) - USED for on-line Stereo Calibration" UC	Display must come up and no buffer drops should be observe Stereo cameras should be calibrated	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1325: support LVDS capture ADASVISION-1438: Stereo capture use case implementation		
<u>Keywords:</u>	None		
<b>Execution Details</b>			

Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

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

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run "2CH LVDS capture + VPE + Remap + Display (HDMI) - USED for off-line Stereo Calibration" UC	Display must come up and no buffer drops should be observe	
3	Press "P"	Check performance stats	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements  
ADASVISION-1325: support LVDS capture  
ADASVISION-1438: Stereo capture use case implementation

Keywords: None

##### **Execution Details**

Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

##### Summary:

NW + Stereo + Display UC

supported on TDA2x

Input : OV10635

Output : HDMI 1080P

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
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1	Run "Network + Stereo + Display (HDMI)" UC	Display must come up & No buffer drops should observed	
2	Open command prompt in host PC  Execute below commands using network_ctrl.exe  <pre>#network_ctrl --ipaddr &lt;ipaddr&gt; [--port &lt;server port&gt;] --cmd &lt;command string&gt; &lt;command&gt;</pre> stereo_calib_image_save,  stereo_calib_lut_to_qspi,  stereo_set_params,  stereo_set_dynamic_params,  stereo_calib_lut_to_qspi,  object_detect_set_dynamic_params	EVM should not hang, and network command should work according to command on target side	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1438: Stereo capture use case implementation	
<u>Keywords:</u>		None	
<b>Execution Details</b>			
Build		REL_3_7	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

### 1.3.4.10.Test Suite : TLFW\_verify

<b>Test Case VISIONSDK-309: TLFW_verification</b>			
<u>Summary:</u>			
Verifying testlink fw			
<u>Preconditions:</u>			
staf should be running			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	1. Add all vision SDk test cases to test link, Map with requirements from JIRA  2. Create a test plan & under that create a build  3. Add test cases to execute for that particular build  4. Trigger all automated test cases from test link  5. Execute remaining manual test cases from test link  6. Generate test report	User should be able to trigger all automated test cases from test link  & also able to update test result for manula test cases	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-369: Deploy TestLink for VSDK test-case management and automation	
<u>Keywords:</u>		None	
<b>Execution Details</b>			
Build		REL_3_7	
Tester		x0246581	

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

### 1.3.4.11.Test Suite : WestonSupport

Test Case VISIONSDK-344: DispDistSrc_weston_Display_1920_1080_HDMI			
<u>Summary:</u> Western example support in vision sdk			
<u>Preconditions:</u> Powervr.ini file has changes for running weston example			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Load linux binaries on EVM	Should be suuccessfully load binaries	
2	Navigate to "Single Camera Usecases" & run "8: DispDistSrc (weston) + Display (1920x1080 HDMI)"	Weston application should be launcheed & seen on display over HDMI	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1852: Integrate HLOS compositor (Weston) with VSDK and M4 display		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.4.12.Test Suite : MCAL\_Sample\_App

Test Case VISIONSDK-351: MCAL_Sample_App			
Summary:			
MCAL Sample App			
Preconditions:			
Ensure binaries have built with MCAL			
#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
2	Run MCAL sample UC	Verify the call back from core running MCAL & check the prints	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1909: Integrate sample MCAL App on IPU2 with VSDK using IPC lib Links on IPU1-0		
Keywords:	None		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

### 1.3.4.13.Test Suite : GSTSupport

<b>Test Case VISIONSDK-356: GST_encode_decode</b>
---------------------------------------------------

Summary:

G-streamer support in vision sdk

Preconditions:

G-streamer works with IPUMM linux binaries only,

Follow UG to build &amp; run (Section 4.4 IPUMM based decode use-case using GStreamer)

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Load IPUMM linux binaries on EVM	Should be able to load binaries succesfully & display main menu	
2	Navigate to "Single Camera Usecases" & run "8: DispDistSrc (weston) + Display (1920x1080 HDMI)"	Weston application should be launched & seen on display over HDMI	
3	Open a telnet terminal & run "decode_ipumm.sh" script	video should be played over weston	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1957: GST Video decode support on VSDK Linux ADASVISION-1958: GST video encode on VSDK Linux		
Keywords:	None		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

restructuring directory structure for VSDk 3.0 release

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Restructure directory structure for VSDK into separate Folder as below  link_fw  Make System (Common for FW & all Apps modules)  sample_app  apps  algorithms  docs  testsuite	Directory structure should be as stated	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1205: VSDK 3.0 restructuring ADASVISION-929: SDK FW and App separation		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.3.5.Test Suite : ECC\_FFI

Test Case VISIONSDK-121: Capture_FrameCopy_FFI_DSP1_Display			
<u>Summary:</u>			
ECC FFI UC - 1CH VIP capture + QM Alg Frame Copy with FFI (DSP1) + Display			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Ensure Binaries build with ECC_FFI_INCLUDE=yes			
Verify that Capture/display is running on IPU1-0 at 30fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run "1CH VIP capture + QM Alg Frame Copy with FFI (DSP1) + Display " UC	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1502: FFI (DSP CPU) - XMC ADASVISION-1505: FFI (DSP EDMA & EVE) - L3FW ADASVISION-1506: EMIF ECC support ADASVISION-1510: DCC support		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			



### 1.3.6.Test Suite : IPC\_LIB

<b>Test Case VISIONSDK-123: IPC_LIB</b>			
<u>Summary:</u>			
IPC LIB UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Build binaries for all platform with IPC_LIB_INCLUDE=yes			
Verify that Capture/display is running on IPU1-0 at 30fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-925: Safe IPC implementation and integration with Vision SDK		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1137: Low latency IPC support in VSDK to reduce the CPU load and latency ADASVISION-925: Safe IPC implementation and integration with Vision SDK
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### 1.3.7.Test Suite : Robust\_RVC

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Test Case VISIONSDK-327: RVC_Capture_Display_VIDDEC_TVP5158_10inch_LCD			
<u>Summary:</u>			
RVC Capture Display UC			
Input : VIDDEC_TVP5158			
Output : 10" LCD			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Build binaries with MAKECONFIG=tda2xx_evm_robust_rvc	Binaries should be built successfully	
2	Load binaries on TDA2xx EVM	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1289: VIP Capture Link to support Interlace mode capture ADASVISION-1397: Rear Camera usecase		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.4.Test Suite : Open\_Compute

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## 1.4.1.Test Suite : OpenVX

Test Case VISIONSDK-223: OpenVX\_Confirmation\_Test

Summary:

OpenVX Confirmation Test v1.1

supported on both Bios/Linux

Preconditions:

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot EVM Run OpenVX Confirmation Test v1.1	Confirmation test should run automatically	

Execution type:

Manual

Estimated exec. duration (sec):

60.00

Priority:

Medium

Requirements

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

Keywords:

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

Execution Details

Build

REL\_3\_7

Tester

x0246581

Execution Result:

Passed

Execution Mode:

Manual

Execution duration (sec):

Test Case VISIONSDK-224: OpenVX_Tutorials			
<u>Summary:</u>			
OpenVX Tutorials			
supported on both Bios/Linux			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM  Run OpenVX Tutorials	Tutorials should run automatically	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-936: OpenVX framework - BIOS, Linux (Phase 1)		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			

Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

**Test Case VISIONSDK-360: TIDL\_Object\_Detection\_OpenVx\_L**Summary:

TIDL Object Detection UC supported using OpenVx Fw on Linux

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot with Linux image	Should boot & display main menu	
2	Select TIDL Object Detection UC from OpenVx Menu	Display should come up with algrthim running	
3	Press "P" to check performance numbers	Should be running at 5 fps	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements  
 ADASVISION-1163: Deep learning demo  
 ADASVISION-1768: TIDL deep learning demo for object detection  
 ADASVISION-2021: TIDL Alg link support to pass output meta data format to next link  
 ADASVISION-2024: Implement and include post processing on TI SSD for customer demos  
 ADASVISION-2043: TIDL OD usecase support on Linux  
 ADASVISION-981: Need benchmarking of various CNN networks on TDA2+

Keywords:  
 tda2xx-evm  
 tda2px-evm  
 c\_performance

**Execution Details**

Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

OpenVX Capture Display UC supported on Bios

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>

1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as HDMI 1080P	Capture Source should be OV10635 Sensor & Display device as HDMI 1080P	
2	Run "VIP Single Channel Capture + OpenVX + Display" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-936: OpenVX framework - BIOS, Linux (Phase 1)		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-369: TIDL\_Object\_Classification\_OpenVx\_L**Summary:

TIDL Object Classification UC using OpenVx Fw supported on Linux

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot with Linux image	Should boot & display main menu	
2	Select TIDL Object Classification UC from OpenVx Menu	Display should come up with algrthim running	
3	Press "P" to check performance numbers	Should be running at <1 fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-1768: TIDL deep learning demo for object detection ADASVISION-2021: TIDL Alg link support to pass output meta data format to next link ADASVISION-2024: Implement and include post processing on TI SSD for customer demos ADASVISION-2043: TIDL OD usecase support on Linux ADASVISION-981: Need benchmarking of various CNN networks on TDA2+		
<u>Keywords:</u>	tda2xx-evm tda2px-evm c_performance		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		

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

**Test Case VISIONSDK-370: TIDL\_Object\_Detection\_OpenVx**Summary:

TIDL Object Detection UC supported using OpenVx Fw

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	Should boot & display main menu	
2	Select TIDL Object Detection UC from OpenVx Menu	Display should come up with algrthim running	
3	Press "P" to check performance numbers	Should be running at 5 fps	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements  
 ADASVISION-1163: Deep learning demo  
 ADASVISION-1768: TIDL deep learning demo for object detection  
 ADASVISION-2021: TIDL Alg link support to pass output meta data format to next link  
 ADASVISION-2024: Implement and include post processing on TI SSD for customer demos  
 ADASVISION-2043: TIDL OD usecase support on Linux  
 ADASVISION-981: Need benchmarking of various CNN networks on TDA2+

Keywords:  
 tda2xx-evm  
 tda2px-evm  
 c\_performance

**Execution Details**

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

**Test Case VISIONSDK-371: TIDL\_Object\_Classification\_OpenVx**Summary:

TIDL Object Classification UC using OpenVx Fw

Check Performance numbers

Preconditions:

Verify below files should be present in SD card

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



5. inData\_OD

6. inHeader\_OD

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	Should boot & display main menu	
2	Select TIDL Object Classification UC from OpenVx Menu	Display should come up with algrthim running	
3	Press "P" to check performance numbers	Should be running at <1 fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1163: Deep learning demo ADASVISION-1768: TIDL deep learning demo for object detection ADASVISION-2021: TIDL Alg link support to pass output meta data format to next link ADASVISION-2024: Implement and include post processing on TI SSD for customer demos ADASVISION-2043: TIDL OD usecase support on Linux ADASVISION-981: Need benchmarking of various CNN networks on TDA2+		
<u>Keywords:</u>	tda2xx-evm tda2px-evm c_performance		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.5.Test Suite : Multi\_Cam

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

<b>Test Case VISIONSDK-22: VIP_4CH_Capture_Display_OV10635_913deser</b>			
<u>Summary:</u>			
4 Channel Capture Display UC			
Input : OV10635 with 913/914 deserializer			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify whether display shows a smooth stitching of the 4 views in Mosaic All running at 30fps. Also check performance stats match with datasheet			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run "4CH VIP Capture + Mosaic Display" UC  Select "0" For Single channel mode  Select "1" For Multi channel mode	On selecting "0"  Display must come up with CH0 preview on full screen and no buffer drops should be observe  On selecting "1"  Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1275: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1277: VIP Capture Link- VIP port Config per VIP instance in multi-VIP port mode ADASVISION-1282: VIP Capture Link to support Multi instance link support ADASVISION-1294: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1304: Display Link - Display Multi instance support ADASVISION-1306: Display Link - HDMI display support ADASVISION-1324: multi sensors support ADASVISION-1325: support LVDS capture ADASVISION-1387: 4CH LVDS VIP Capture + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Display ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1582: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4 ADASVISION-1668: Custom SWMS link to use VPE (scalar) internally to avoid DMA copy ADASVISION-897: Add single camera capture display using lvds for all platforms		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		

Execution duration (sec):

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

#### Summary:

6 Channel Capture Display UC

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

#### Preconditions:

Regenerate UC with numbert of max LVDS channel = 6

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source should be OV10635 & Display device as HDMI 1080P	
2	Run 4CH VIP Capture + Mosaic Display Display UC	Display must come up and no buffer drops should be observe Six views should come up in Mosaic	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1282: VIP Capture Link to support Multi instance link support ADASVISION-1290: VIP Capture Link - Detect VIP port overflow & Reset ADASVISION-1294: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1324: multi sensors support		
<u>Keywords:</u>	tda2xx-evm tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

#### Summary:

4 Channel Capture SGX Mosaic Display UC

supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux

Input : OV10635 with 913/914 deserializer

Output : HDMI 1080P

#### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP LVDS capture + SGX MOSAIC + DISPLAY" UC	Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			

<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1582: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1585: TDA2Ex - shall support all the Linux single & multi camera usecases which use one DSP, A15 & M4 ADASVISION-1596: Support VSDK Linux GPU Off-screen rendering & M4 side display ADASVISION-891: Vision SDK Linux - display on M4 for both TDA2x & TDA2Ex
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

<b>Test Case VISIONSDK-116: AVB_4CH_NW_Capture_Mosaic_Dispaly_AVBTx</b>			
<u>Summary:</u>			
Supported on TDA2x/TDA2Ex/TDA2Ex Entry			
4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + AVB_Tx/Display (TDA2x & TDA2Ex ONLY) UC			
Input: Throuh Network (using AVB Talker)			
Output: HDMI1080P/PC			
<u>Preconditions:</u>			
Ensure Build happened with NDK_PROC_TO_USE=ipu1_1			
Ensure Host PC & target is connected through network cable			
Run AVB talker in host PC & send MPEG encoded frames to target			
Verify that AVB Receives frames from network,decoder is able to decode the MJPEG frame and Display			
Verify that 4ch AVB Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps on LCD/HDMI			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM	EVM should boot	
2	Select UC	UC should be selected	
3	Enter no of channels as 4	No of channels should be 4	
4	Seectl HDMI Display + AVB TX	Option should be selected	
5	Run avb talker & listener on PC side	Using Talker sent files from PC to target  Run "sudo ./avbtp_talker.sh [file1] [file2] [file3] [file4]"  Using listener dump frame to PC  Run "sudo ./avbtp_listener.sh recv.h264"	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1261: Performance tuning for IVAHD codec in system ADASVISION-1273: IVA H264 Encoder - IDR frame only configuration ADASVISION-1334: IVA Decode Link - Multichannel MJPEG decode ADASVISION-1336: IVA Decode Link - Multichannel H264 decode ADASVISION-1337: IVA Decode Link - Support various Decode resolutions ADASVISION-1338: IVA Decode Link - Support for multiple Bit rates ADASVISION-1339: IVA Decode Link - Performance ADASVISION-1340: IVA Decode Link - Subframe/Slice based decoding ADASVISION-1341: IVA Decode Link - Error-concealment ADASVISION-1342: IVA Decode Link - Output data format YUV420SP ADASVISION-1362: AVB Rx Link - Packet reception & multi-channel support ADASVISION-1363: AVB Rx Link - frame level Notification ADASVISION-1364: AVB Rx Link - Sub-frame level Notification ADASVISION-1365: AVB Rx Link - Interoperability ADASVISION-1366: AVB Rx Link - Performance ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1393: 4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Display ADASVISION-1447: IVA Encode Link support Multichannel MJPEG encode ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions		

	ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP ADASVISION-1583: Shall support AVB multi-channel capture upto 4 channel
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression m_iva
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

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

#### Summary:

Supported on TDA2x/TDA2Ex/TDA2Ex Entry

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

Input: Throuh Network (using AVB Talker)

Output: PC

#### Preconditions:

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

Ensure Host PC & target is connected through network cable

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

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

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

No Display

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

#### Requirements

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

	ADASVISION-1367: AVB Rx Link - Error handling ADASVISION-1368: AVB Rx Link - Test with PC talker ADASVISION-1393: 4CH AVB Capture + Decode + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Display ADASVISION-1449: IVA Encode Link support Multichannel H264 encode ADASVISION-1450: IVA Encode Link Support various encode resolutions ADASVISION-1451: IVA Encode Link Support for multiple Bit rates ADASVISION-1452: IVA Encode Link Performance ADASVISION-1454: IVA Encode Link support Error-concealment ADASVISION-1455: IVA Encode Link support Input data format YUV420SP
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	



### 1.5.3.Test Suite : SelectLink

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<b>Test Case VISIONSDK-186: VIP_4CH_Capture_Select_Display</b>			
<u>Summary:</u>			
Multi Cam Capture Select Display UC			
supported on TDA2x/TDA2Ex/TDA3x			
Input : OV10635 Sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of LVDS Capture Select Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1521: select a particular channel		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

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

##### Summary:

Multi Cam Capture Color to Gray Display UC

supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 Sensor

Output : HDMI 1080P

##### Preconditions:

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

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of LVDS Capture Color to Gray Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1558: Support Sample Algorithm Link (Color to Gray Plug-Ins) with inplace buffer processing		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

<b>Test Case VISIONSDK-192: VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display</b>			
<u>Summary:</u>			
Multi Cam Capture VPE Sync DMA SWMS Display UC			
supported on TDA2x/TDA3x			
Input : OV10635 Sensor			
Output : HDMI 1080P			
On IPU/A15: System EDMA			
On DSP: Local DMA			
<u>Preconditions:</u>			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Run Testsuite	Check Logs of LVDS Capture VPE Sync DMA SWMS Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1559: Sample Algorithm Link (DMA SW Mosaic Plug-Ins)		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_integration m_vpe		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.6.Test Suite : Sample\_App

<b>Test Case VISIONSDK-221: NullSrc_Display_UC</b>			
<u>Summary:</u>			
Null Src Display UC			
Input Data Format: TI Logo			
Output : HDMI 1080P			
<u>Preconditions:</u>			
USer should able to build Sample App binaries (BIOS) for TDA2x			
MAKEAPPNAME=sample_app & MAKECONFIG=tda2xx_evm_bios_all			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Sample App binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Display" UC	Display must come up and no buffer drops should be observe TI Logo should be seen on full screen Framecopy algorithim should be running on DSP	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1256: Add one simple Alg-plugin in sample_app ADASVISION-929: SDK FW and App separation		
<u>Keywords:</u>	tda2xx-evm c_qualification m_connector_links		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-222: NullSrc_Display_UC_L</b>			
<u>Summary:</u>			
Null Src Display UC			
supported on TDA2x/TDA2Ex/TDA2Ex Entry Linux			
Input Data Format: TI Logo			
Output : HDMI 1080P			
<u>Preconditions:</u>			
USer should able to build Sample App binaries (Linux) for TDA2x			
MAKEAPPNAME=sample_app MAKECONFIG=tda2xx_evm_linux_all			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot EVM with Linux binaries	EVM boots without any error and usecase menu displayed	
2	Run "NullSrc + Display" UC	Display must come up and no buffer drops should be observe TI Logo should be displayed on full screen Framecopy algorithm should be running on DSP	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1256: Add one simple Alg-plugin in sample_app ADASVISION-929: SDK FW and App separation		
<u>Keywords:</u>	tda2xx-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.7.Test Suite : Radar

<b>Test Case VISIONSDK-154: NullSrc_Capture_Radar_FFT_EVE1_Null_Read_Frames_SDcard</b>			
<u>Summary:</u>			
Null Source Capture(SD card) Radar FFT on EVE1 Null UC			
Input : AR12			
Output : Null			
<u>Preconditions:</u>			
Input files present in SD card			
Debug prints will be in			
UART1 for TDA2x & UART2 for TDA3x			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC  Select Data Read/Write Mode as SD card	No display	
3	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1255: Radar Advance frame configuration & dynamic configuration support ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1442: RADAR algorithm porting on DSP Alg link ADASVISION-1445: RADAR processing performance benchmarking ADASVISION-1570: power mamagemant - CPU IDLE ADASVISION-1571: power mamagemant - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power mamagemant - CPUIDLE: IPU Core Idle ADASVISION-1573: power mamagemant - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power mamagemant - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-1699: [RADAR] Propagate each output channel info properly in RadarProcess Link Alg Plugin ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-989: Radar data read from SD card ADASVISION-990: Radar Data output to SD Card ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

<b>Test Case VISIONSDK-155: NullSrc_Capture_Radar_FFT_EVE1_Null_Write_Frames_SDcard</b>			
<u>Summary:</u>			

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

Input : AR12

Output : Null

Preconditions:

Input files present in SD card

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as SD card	No display	
3	Select File IO menu Write single frame to SD card	Writing single frame to SD card should be successfull	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements

ADASVISION-1115: [RADAR] Support for build support and file based capture read process write  
 ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK  
 ADASVISION-1570: power mamagement - CPU IDLE  
 ADASVISION-1571: power mamagement - CPUIDLE: MPU Core 0/1 Idle  
 ADASVISION-1572: power mamagement - CPUIDLE: IPU Core Idle  
 ADASVISION-1573: power mamagement - CPUIDLE: DSP 1/2 Core Idle  
 ADASVISION-1574: power mamagement - CPUIDLE: EVE 1/2/3/4 Core Idle  
 ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE  
 ADASVISION-985: Radar Processing Alg Plugin  
 ADASVISION-986: Radar Processing Alg Plugin Flexibility  
 ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE  
 ADASVISION-989: Radar data read from SD card  
 ADASVISION-990: Radar Data output to SD Card  
 ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input

Keywords: tda2xx-evm  
tda3xx-evm

**Execution Details**

Build REL\_3\_7

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

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

Summary:

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

Input : AR12

Output : Null

Preconditions:

Ensure NDK is enabled in build

Input files sent through network using network\_tx

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

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

	+ Null (SD/Network)" UC		
	Select Data Read/Write Mode as Network		
3	Press "P"	Check performance stats	
4	using network_ctrl tool send a diiferent parameter set	should be able to update with new parameter set	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1699: [RADAR] Propagate each output channel info properly in RadarProcess Link Alg Plugin ADASVISION-1919: Radar: Allow accepting mmwave messages from Network to translate to AWR1243 SPI commands - Base Infr ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-991: Radar data input and output via Ethernet		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

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

Input : AR12

Output : Null

Preconditions:

Ensure NDK is enabled in build

Input files sent through network using network\_tx

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC	No display	
	Select Data Read/Write Mode as Network		
3	Run network_rx to dump files	Should be able to dump frmaes	
4	Using network_ctrl tool send a different parameter set	should be able to update with new parameter set	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1919: Radar: Allow accepting mmwave messages from Network to translate to AWR1243 SPI commands - Base Infr ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-991: Radar data input and output via Ethernet ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input		
<u>Keywords:</u>	tda2xx-evm		



	tda3xx-evm
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-345: Cascade\_Radar\_AR12\_Capture\_Null

##### Summary:

Cascade Radar Capture Null UC

Input : AR12

Output : Null

Supported on : TDA2x Cascade Radar board

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot TDA2x Cascade radar board	Shoul display Main Menu	
2	Run "9: Cascade Radar (4 AWR1243) Capture + Null (TDA2xx Only)" UC	No Display	
4	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1853: [RADAR] VSDK to support TDA2x cascade radar ADASVISION-2058: Support Radar front end and algorithm configurations to be read from file		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-346: Cascade\_Radar\_AR12\_Capture\_Radar\_Object\_Detect\_DSP\_Null

##### Summary:

Cascade\_Radar\_AR12\_Capture\_Radar\_Object\_Detect\_DSP\_Null UC

Input : AR12

Output : Null

Supported on : TDA2x Cascade Radar board

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot TDA2x Cascade radar board	Shoul display Main Menu	
2	Run "a: Cascade Radar (4 AWR1243) Capture + Radar Object Detect (DSP) + Null (TDA2xx Only)" UC	No Display	
4	Press "P"	Check performance stats	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		

<u>Requirements</u>	ADASVISION-1853: [RADAR] VSDK to support TDA2x cascade radar ADASVISION-1856: 4x AWR1243 MIMO Radar Cascade Usecase ADASVISION-2009: [RADAR] [TDA2x] SD Card based AWR1243 Control ADASVISION-2010: [RADAR][FFT] 32 bit library exercise in cascade radar processing ADASVISION-2018: [RADAR] [TDA2x] Allow MIMO Cascade Processing to have different antenna configurations ADASVISION-2019: [RADAR] [TDA2x] Beam Forming Cascade Processing Usecase ADASVISION-2102: [RADAR] Tx beamforming Only Alg function support with multi-burst support ADASVISION-2107: [RADAR] 10 Tx MIMO Usecase Enhancements
<u>Keywords:</u>	None
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

#### Test Case VISIONSDK-361: Cascade\_Radar\_AR12\_Capture\_Null\_Using\_Radar\_Studio

##### Summary:

Cascade Radar Capture Null UC using Radar Studio

Input : AR12

Output : Null

Supported on : TDA2x Cascade Radar board

##### Preconditions:

Radar studio should be installed on PC AWR config should come from Radar Studio

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot TDA2x Cascade radar board	Shoul display Main Menu	
2	From Radar studio, start sending NW cmd	Should be recieved by cascade board & behave accordingly	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-2101: [RADAR] Cascade Radar control via Radar Studio		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

#### Test Case VISIONSDK-373: Radar\_Studio\_Advanced\_Features\_Test\_With\_Cascade\_Radar

##### Summary:

Radar Studio Advanced Features Test With Cascade Radar

Input : AR12

Output : Null

Supported on : TDA2x Cascade Radar board

##### Preconditions:

Radar studio should be installed on PC AWR config should come from Radar Studio

<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Boot TDA2x Cascade radar board	Shoul display Main Menu	
2	From Radar studio, start sending NW cmd	Should be recieved by cascade board	

		& behave accordingly	
3	Enable Monitoring reports from Studio. Trigger Slave 1 Trigger Slave 2 Trigger Slave 3 Trigger Master Wait for monitoring reports	There should not be any crash observed for lower or higher monitoring rates	
4	Use ContStreaming Tab to configure CW mode. Use RadarStudio user guide. Trigger Slaves Trigger Master	CW streaming mode should be enabled in TDA2 capture software	
5	Check PCIe raw data capture throughput for TDA2x Cascade radar board	It should be around 4 Gbps.	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	None		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Failed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			
Execution notes	ADASVISION-2217: AWR1243 crashed for higher monitoring data rates ADASVISION-2218: CW streaming mode should be enabled in TDA2 capture software ADASVISION-2075: PCIe throughput on Cascade Radar Board limited to 1.6 Gbps		

## 1.8.Test Suite : Build

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## 1.8.1.Test Suite : VSDK\_Builds

<b>Test Case VISIONSDK-241: VSDK_default_build</b>			
<u>Summary:</u>			
VSDK Default Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
All ti_cmponents (including PDK) should be part of release package			
Copy all necessary components (gcc tool,linaro tool chain)			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Navigate to (vsdk_install_path)/vision_sdk/build  & run make -s showconfig	Should display config for tda2xx_evm_bios_all	
2	Check default config	By default all cores are enabled  PROFILE=release  DDR Memory should be 512MB  NDK should be on A15  & A15_TARGET_OS=Bios	
3	run make -s -j depend  & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1167: Error handling requirements ADASVISION-1348: Applimage generation ADASVISION-1358: 512MB memory map ADASVISION-1408: shall support Bios only build ADASVISION-1529: Multiple heap support ADASVISION-1530: Cache configuration ADASVISION-1531: Memory config ADASVISION-1532: External Memory allocation ADASVISION-1533: Internal memory allocation from OCMC ADASVISION-1534: Internal memory allocation from DSP L2 SRAM at create time only, no run time allocation and de-alloc ADASVISION-1535: Internal memory allocation from DSP L1 SRAM ADASVISION-1586: Static memory allocation in Vision SDK and its component ADASVISION-1597: IPU2 support in VSDK with SMP bios mode ADASVISION-648: Improve the build time and build process ADASVISION-666: [BSP/STW] Removal of dynamic allocation from BSP and STW libraries ADASVISION-930: PDK integration with Vision SDK.		
<u>Keywords:</u>	tda2xx-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

**Test Case VISIONSDK-249: VSDK\_BIOS\_different\_builds**Summary:

VSDK BIOS different configurations Build

Preconditions:

Follow UG to Install release package

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

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

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Navigate to (vsdk_install_path)/vision_sdk/build  & run make -s showconfig	Should display config for tda2xx_evm_bios_all	
2	Modify Rules.mk file to other available MAKECONFIG  & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend  & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u> Manual			
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u> Medium			

<u>Requirements</u>	ADASVISION-1080: TDA2Px (J6+) Support with VSDK ADASVISION-1081: J6 Entry support for VSDK ADASVISION-1095: Platform support & maintainability ADASVISION-1167: Error handling requirements ADASVISION-1348: AppImage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory maps ADASVISION-1352: Multiple platforms support ADASVISION-1354: Build profile selection ADASVISION-1355: 256MB memory map ADASVISION-1356: 1GB memory map ADASVISION-1357: 128MB memory map ADASVISION-1358: 512MB memory map ADASVISION-1359: MMU configs of different CPUs ADASVISION-1360: Platform selection ADASVISION-1361: Selective builds for following links - VPE, ISS ADASVISION-1408: shall support Bios only build ADASVISION-1409: shall support bios + Liux on A15 ADASVISION-1529: Multiple heap support ADASVISION-1530: Cache configuration ADASVISION-1531: Memory config ADASVISION-1532: External Memory allocation ADASVISION-1533: Internal memory allocation from OCMC ADASVISION-1534: Internal memory allocation from DSP L2 SRAM at create time only, no run time allocation and de-alloc ADASVISION-1535: Internal memory allocation from DSP L1 SRAM ADASVISION-1570: power management - CPU IDLE ADASVISION-1571: power management - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power management - CPUIDLE: IPU Core Idle ADASVISION-1573: power management - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power management - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1586: Static memory allocation in Vision SDK and its component ADASVISION-1633: Migrate DSP CGT version of VSDK to use CGT 8.2.4 ADASVISION-1652: TDA2EX ETH SRV platform board Support with VSDK ADASVISION-1751: Support in the makefile to allow for file specific compile options ADASVISION-1857: [TDA3x-RVP] Support 1GB memory map ADASVISION-1980: Add support for the TDA2PX RVP to vision SDK ADASVISION-648: Improve the build time and build process ADASVISION-666: [BSP/STW] Removal of dynamic allocation from BSP and STW libraries ADASVISION-892: RVP support in vision SDK ADASVISION-930: PDK integration with Vision SDK. ADASVISION-955: RVP support in PSDK & VSDK
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<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_integration
<u>Attached files</u>	<ul style="list-style-type: none"> <li>• BIOS Different Build Config : build_vsdk.sh</li> <li>• build_vsdk.sh</li> </ul>
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

### Test Case VISIONSDK-250: VSDK\_Linux\_different\_builds

#### Summary:

VSDK Linux different configurations Build

#### Preconditions:

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

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

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

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

<u>Requirements</u>	ADASVISION-1350: CPU selection ADASVISION-1352: Multiple platforms support ADASVISION-1356: 1GB memory map ADASVISION-1360: Platform selection ADASVISION-1407: vision SDK with Linux on A15 ADASVISION-1409: shall support bios + Linux on A15 ADASVISION-1597: IPU2 support in VSDK with SMP bios mode ADASVISION-1598: IPU1 SMP mode support ADASVISION-1833: PSDK Linux 3.4 migration and validation ADASVISION-648: Improve the build time and build process ADASVISION-666: [BSP/STW] Removal of dynamic allocation from BSP and STW libraries ADASVISION-884: IPUMM + vision SDK merge ADASVISION-885: Linux VSDK with IPU2 as main IPU core
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	ADASVISION-930: PDK integration with Vision SDK. ADASVISION-935: 4.4 Kernel migration
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_integration
<u>Attached files</u>	<ul style="list-style-type: none"> <li>Linux Different Build Config : build_Linux.sh</li> <li>build_Linux.sh</li> </ul>
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

<b>Test Case VISIONSDK-278: VSDK_KW_build</b>			
<u>Summary:</u>			
VSDK Klocwork Build			
<u>Preconditions:</u>			
Jenkin Node is up & running			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Login to Jenkin server & trigger VSK_KW_build projet	Should build KW project & sent a report with open criticcal & major MISRA-C issues	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1353: Static code checker Klockwork ADASVISION-1517: Static code checker MISRA-C ADASVISION-1525: Follow coding guidelines		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			



## 1.8.2.Test Suite : Radar\_Builds

Test Case VISIONSDK-242: Radar_default_build			
Summary:			
Radar Default Build			
Preconditions:			
Follow UG to Install release package			
Copy all necessary components (gcc tool)			
#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Navigate to (radar_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda3xx_evm_bios_radar	
2	Check default config	By default all IPU1_0, IPU1_1, DSP1, EVE1 are enabled  Memory should be 128MB  NDK should be disabled & A15_TARGET_OS=Bios	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1108: [RADAR] Support for 128 MB build by default ADASVISION-1348: AppImage generation		
Keywords:	tda3xx-evm c_qualification		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

<b>Test Case VISIONSDK-280: Radar_BIOS_different_builds</b>			
<u>Summary:</u> Radar different configurations Build			
<u>Preconditions:</u> Follow UG to Install release package All ti_components (including PDK) should be part of release package Copy all necessary components (gcc tool,linaro tool chain)			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Navigate to	Should display config for	

	(vsdk_install_path)/vision_sdk/build & run make -s showconfig	tda3xx_evm_bios_radar	
2	Modify Rules.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1106: [RADAR] Add support for ALPS Hardware ADASVISION-1108: [RADAR] Support for 128 MB build by default ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1348: Applimage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory maps ADASVISION-1352: Multiple platforms support ADASVISION-1354: Build profile selection ADASVISION-1359: MMU configs of different CPUs ADASVISION-1360: Platform selection ADASVISION-1755: [RADAR] Add support for TDA2px EVM ADASVISION-1853: [RADAR] VSDK to support TDA2x cascade radar		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster c_integration		
<u>Attached files</u>	<ul style="list-style-type: none"> <li>• Radar Different Build Config : build_radar.sh</li> <li>• build_radar.sh</li> </ul>		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.9.Test Suite : Release\_Process

<b>Test Case VISIONSDK-245: VSDK_Radar_release_check_list</b>			
<u>Summary:</u>			
VSDK & Radar release check list			
<u>Preconditions:</u>			
VSDK & Radar RC package already installed & tested			
Verify that release goes through the standard release process			
#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Check for licenses, manifest, release notes, test reports, datasheets	Release shall comply for the basic release process such as export license, OSRB approval etc.	
2	Check there are test cases for all product requirements (planned in release)  & executed in testing phase	Traceability report (Req -> Test) should have all req mapped to tc  Test result matrix should have nothing in "Not Run" state	
3	Check updated project plan, test plan, test strategy docs for release are all available in clearcase	All updated version of docs should be available in clearcase	
4	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
5	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
6	Check all links in the "index.html"  Remove unwanted links	All links in the "index.html" should work properly	
7	Check all links in the "index.html"  Remove unwanted links	All links in the "index.html" should work properly	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1094: Software release process ADASVISION-1168: SW quality requirements ADASVISION-1513: Release process ADASVISION-1528: Product requirements ADASVISION-1672: [Radar] Add Radar System planner to the Release Package ADASVISION-1675: Processor SDK Vision ti.com landing page - clean-up ADASVISION-1690: Process: Update Software Integration and Test Strategy document ADASVISION-1752: [Radar] Add Radar System planner to the Release Package ADASVISION-875: Develop a How to Debug best practices document, that outlines how to rapidly load binaries, restart		
<u>Keywords:</u>	None		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

Summary:

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

Preconditions:

VSDK RC package installed &amp; tested

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Modify MPI files to pick correct ti_components  Modify InstallJammer Environment script  Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine  Check for all customer collaterals  & Build with default config	Installation should be success  Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc  Build should be success	
3	Install on Linux machine  Check for all customer collaterals  & Build with default config	Installation should be success  Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc  Build should be success	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1096: packaging and installation ADASVISION-1512: Single installer for vision SDK ADASVISION-1514: Customer collaterals		
<u>Keywords:</u>	c_qualification		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

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

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

Preconditions:

Radar RC package installed &amp; tested

#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Modify MPI files to pick correct ti_components  Modify InstallJammer Environment script  Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine  Check for all customer collaterals	Installation should be success  Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc	

	& Build with default config	Build should be success	
3	Install on Linux machine	Installation should be success	
	Check for all customer collaterals	Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc	
	& Build with default config	Build should be success	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-1096: packaging and installation ADASVISION-1514: Customer collaterals ADASVISION-917: Separate packaging for Radar SDKs	
<u>Keywords:</u>		c_qualification	
<b>Execution Details</b>			
Build		REL_3_7	
Tester		x0246581	
<u>Execution Result:</u>		<b>Passed</b>	
<u>Execution Mode:</u>		<b>Manual</b>	
<u>Execution duration (sec):</u>			

## 1.10.Test Suite : Boot\_Modes

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## 1.10.1.Test Suite : Secure\_Boot

Test Case VISIONSDK-229: VIP_Capture_Display_UC_HS_Sample			
Summary:			
Capture Display UC on HS Sample			
Input : OV10635			
Output : HDMI 1080P			
Preconditions:			
Build SBL & Appimage with HS_SAMPLE=yes			
&load binaries on HS sample			
Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps			
#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Go to System Settings  Select Capture Source as OV10635  & Display Output as HDMI 1080P	Capture Source should be OV10635  & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Run all UC one by one	Display must come up and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1515: Secure boot mode ADASVISION-888: Security Enablement “ TDA2x ADASVISION-913: TDA3x Security - SBL		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

## 1.10.2.Test Suite : SD\_Boot

Test Case VISIONSDK-273: Load_BIOS_Binaries_using_SD_Card			
<u>Summary:</u>			
Load Binaries using SD Card			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy Appimage & MLO (opp_nom, opp_od, opp_high)to SD card			
#:	Step actions:	PASS/FAIL Criteria:	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 with different OPP MLO	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1344: SD boot mode ADASVISION-1423: Basic board bringup (serial, pinmux, ddr, nand) using SBL ADASVISION-1425: Boot mode bringup		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-283: Load_Linux_Binaries_using_SD_Card			
<u>Summary:</u>			
Load Binaries using SD Card			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy u-boot, MLO & File system to SD card			
#:	Step actions:	PASS/FAIL Criteria:	Execution Status:
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1344: SD boot mode		



	ADASVISION-1424: Basic board configuration bringup using u-boot/Linux ADASVISION-1425: Boot mode bringup ADASVISION-1601: SD card file system support with VSDK ADASVISION-1833: PSDK Linux 3.4 migration and validation
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm c_qualification
<b>Execution Details</b>	
Build	REL_3_7
Tester	x0246581
<u>Execution Result:</u>	<b>Passed</b>
<u>Execution Mode:</u>	<b>Manual</b>
<u>Execution duration (sec):</u>	

<b>Test Case VISIONSDK-354: Load_Linux_Binaries_on_EVM_with_more_than_2GB_RAM</b>			
<u>Summary:</u> Load Binaries using SD Card supported on TDA2x			
<u>Preconditions:</u> Build & Copy u-boot, MLO & File system to SD card Modify uenv.txt file -> remove bootarg mem=1024M			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Insert SD card into card slot & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries & Display Main Menu	
3	To cross check memory is more than 2GB or not run "free -m" command in root prompt	It should display the used & available memory	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1601: SD card file system support with VSDK ADASVISION-1955: VSDK Linux support on boards with > 2 GB RAM		
<u>Keywords:</u>	tda2xx-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

### 1.10.3.Test Suite : QSPI\_Boot

Test Case VISIONSDK-274: Load_Binaries_using_QSPI			
Summary:			
Load Binaries using QSPI			
Preconditions:			
Build Appimage & SBL for QSPI			
#:	Step actions:	PASS/FAIL Criteria:	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 & ApplImage to QSPI	SBL & ApplImage should be flashed to QSPI	
3	Discoonect CCS & Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1346: QSPI boot mode ADASVISION-1347: Flashing method		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_7		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

## 1.10.4.Test Suite : NOR\_Boot

Test Case VISIONSDK-276: Load_Binaries_using_NOR			
<u>Summary:</u>			
Load Binaries using NOR			
<u>Preconditions:</u>			
Build Appimage & SBL for NOR			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & AppImage to NOR	SBL & AppImage should be flashed to NOR	
3	Discoonnect CCS & Follow UG to set SYSBOOT PIN for NOR Boot	SYSBOOT PIN should be for NOR Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1345: NOR boot mode		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.10.5.Test Suite : NFS\_Boot

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<b>Test Case VISIONSDK-284: Load_Linux_Binaries_from_NFS</b>			
<u>Summary:</u>			
Load Binaries from NFS			
supported on TDA2x/TDA2Ex/TDA2Ex Entry			
<u>Preconditions:</u>			
Build & Copy u-boot, MLO & File system to SD card			
Modify uenv.txt to point to filesystem from your NFS path			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Insert SD card into card slot  & Follow UG to set SYSBOOT PIN for SD boot	SYSBOOT PINs should be for SD boot	
2	Boot EVM	EVM should boot with binaries from NFS path &  Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1424: Basic board configuration bringup using u-boot/Linux		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda2ex-entry tda2px-evm		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			

## 1.10.6.Test Suite : CCS\_Boot

Test Case VISIONSDK-332: Load_Binaries_using_CCS			
<u>Summary:</u>			
Load Binaries using CCS			
<u>Preconditions:</u>			
Build binaries			
<u>#:</u>	<u>Step actions:</u>	<u>PASS/FAIL Criteria:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug  & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Load binaries on each core separately  or use the ".js" script available under vision_sdk/build/rtos/scripts to load on all cores at once	Binaries should be load on each core successfully  & Display main menu on uart console	
3	From Main Menu run any UC	UC should run successfully	
4	Check for few register address whether displaying proper data or not	Data should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	None		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster		
<b>Execution Details</b>			
Build	REL_3_7		
Tester	x0246581		
<u>Execution Result:</u>	<b>Passed</b>		
<u>Execution Mode:</u>	<b>Manual</b>		
<u>Execution duration (sec):</u>			