

Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV_Test_Plan_3_6_Functional_TDA3xx

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2017 (c) Testlink Community

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: PSDKV_Test_Plan_3_6_Functional_TDA3xx

TDA3xx Functional Test Plan

Will cover all functional test for tda3xx-evm

1.1.Test Suite : Network

1.1.1.Test Suite: TCP/IP

Test Case VISIONSDK-100: NW_Ctrl_cmd_echo

Summary:

Network Control Command "echo"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC Execute "echo" command using network_ctrl.exe #network_ctrlipaddr <ipaddr> [port <server port="">]cmd <command string=""/> <command parameters=""/></server></ipaddr>	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 ADASVISION-1611: Network RX and TX support		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_nw		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-101: NW_Ctrl_cmd_sys_reset

Summary:

Network Control Command "sys_reset"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC	EVM should not hang, and network command should work according to command on target	

.013	testreport i SDRV_Test_	i lali_5_0_i ulicilollal_1DA3XX
	Execute "sys_reset" command using network_ctrl.exe #network_ctrlipaddr <ipaddr> [port <server port="">]cmd <command string=""/> <command parameters=""/></server></ipaddr>	side
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1610: Network RX and TX support ADASVISION-1611: Network RX and TX support	
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC Execute "qspi_wr" command using network_ctrl.exe #network_ctrlipaddr <ipaddr> [port <server port="">]cmd <command string=""/> <command parameters=""/></server></ipaddr>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
<u>Priority:</u>	Medium		
Requirements	ADASVISION-1610: Network RX and TX support ADASVISION-1611: Network RX and TX support	t on M4 Bios using NDK/NSP t on A15 Bios using NDK/NSP	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-103: NW_Ctrl_cmd_mem_rd

Summary:

Network Control Command "mem_rd"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

mano montrom cable com			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC Execute "mem_rd" command using network_ctrl.exe #network_ctrlipaddr <ipaddr> [port <server port="">]cmd <command string=""/> <command parameters=""/></server></ipaddr>	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 ADASVISION-1611: Network RX and TX support	t on M4 Bios using NDK/NSP t on A15 Bios using NDK/NSP	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-104: NW_Ctrl_cmd_mem_wr

Summary:

Network Control Command "mem_wr"

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

make network easie comin	00100		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC Execute "mem_wr" command using network_ctrl.exe #network_ctrlipaddr <ipaddr> [port <server port="">]cmd <command string=""/> <command parameters=""/></server></ipaddr>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		

Requirements	ADASVISION-1610: Network RX and TX support on M4 Bios using NDK/NSP ADASVISION-1611: Network RX and TX support on A15 Bios using NDK/NSP
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-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>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Open command prompt in host PC Execute "mem_save" command using network_ctrl.exe #network_ctrlipaddr <ipaddr> [port <server port="">]cmd <command string=""/> <command parameters=""/></server></ipaddr>	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 ADASVISION-1611: Network RX and TX support		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_txhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>	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-1263: Null & NullSrc clean-up to move Network and network_tx li ADASVISION-1610: Network RX and TX support on M4 Bio ADASVISION-1611: Network RX and TX support on A15 Bio ADASVISION-1871: IPv6 support configuration ADASVISION-2016: [networking] A15 performance optimized	os using NDK/NSP os using NDK/NSP	_
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm		
	tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw		
Execution Details	tda2ex-entry tda2px-evm c_regression c_stress c_stability		
Execution Details Build	tda2ex-entry tda2px-evm c_regression c_stress c_stability		
	tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw		
Build	tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw REL_3_6		
Build Tester	tda2ex-entry tda2px-evm c_regression c_stress c_stability m_nw REL_3_6 x0246581		

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

mano momoni cabio com			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rxhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>	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-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
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_nw
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-110: MultiCam_Capture_NW_Tx

Summary:

4 Channel VIP capture + Network Tx UC

Preconditions:

verify that host and target can communicate and execute command accordingly

Boot with SD card

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rxhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>	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 Bi ADASVISION-1611: Network RX and TX support on A15 B ADASVISION-1696: Improve error diagnostic information in	ios using NDK/NSP	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.1.2.Test Suite: TFDTP

Test Case VISIONSDK-234: NW_Rx_Display_TFDTP

Summary:

Network Rx Display UC using TFDTP

Input : RAW frames
Output : HDMI 1080P

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Boot EVM	EVM boots without any error and usecase menu displayed		
2	Run "Network RX + Display" UC under Network UCs	UC should run without any issues		
3	Select TFDTP	TFDTP should be selected		
4	Open command prompt in host PC & Send RAW frames to target using network_tx.exe # network_txhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>			
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium	Medium		
<u>Requirements</u>	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1181: Retransmit support in TFDTP receive ADASVISION-1183: TFDTP support on A15 ADASVISION-2016: [networking] A15 performance optimization			
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-237: SingleCam_Capture_NW_Tx_TFDTP

Summary:

Single Channel capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

Wake Hetwork Cable Collin			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rxhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in	n network_rx for the network tools	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-238: MultiCam_Capture_NW_Tx_TFDTP

Summary:

4 Channel VIP capture + Network Tx UC using TFDTP

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Wake hetwork cable comin	ootou		
<u>#:</u>	tep actions: Expected Results:		Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "4CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rxhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1696: Improve error diagnostic information in	n network_rx for the network tools	

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

Test Case VISIONSDK-329: TFDTP_Rx_Display

Summary:

TFDTP Rx Display UC

Input : RAW frames
Output : HDMI 1080P

Preconditions:

Binaries should be built with NSP_TFDTP_INCLUDE=yes

verify that host and target can communicate and execute command accordingly

Boot with SD card

Make network cable connected

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "TFDTP 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_txhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>		
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1181: Retransmit support in TFDTP receive		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-330: Multi_Plane_MetaData_Buffer_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 conne	octod		
#:	Step actions:	Expected Results:	Execution Status:
1	Boot EVM	EVM boots without any error and usecase menu displayed	
2	Run "1CH VIP Capture + Network TX" UC under Network UCs	UC should run without any issues	
3	Select TFDTP	TFDTP should be selected	
4	Open command prompt in host PC & Recieve RAW frames from target using network_rx.exe # network_rxhost_ip <ipaddr>target_ip <ipaddr> [port <server port="">usetfdtpverboseno_loopdelay <delay in="" secs="">]files <ch0 file=""> <ch1 file=""></ch1></ch0></delay></server></ipaddr></ipaddr>	EVM should not hang, and network command should work according to command on target side	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1135: TFDTP integration with VSDK ADASVISION-1694: Null Link to support network TFDTP tr ADASVISION-1696: Improve error diagnostic information in		r
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.2.Test Suite: FastBoot

Test Case VISIONSDK-118: Fast_Boot_AR140_Sensor_10inch_LCD

Summary:

Fast Boot UC - 1CH ISS Capture + ISP + LDC + Obj detect + Display

Capture - AR140 sensor

Display - 10 inch LCD

Binaries - TDA3xx FastBoot QSPI Binaries

Preconditions:

Verify I2C to run at 400KHz

Binaries should be built with FAST_BOOT_INCLUDE=yes

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Follow UserGuide & Flash FastBoot QSPI Binaries on TDA3xx	Flashing should be successfull	
2	Boot EVM	Display should flash up with preview in < 1 sec Usecase should switch to Object detect algorithm and Pedestrian / Traffic signs detection should start as soon as they are in field of view after boot up 3.You should see boot time printed on the LCD 4.Display must come up and no buffer drops should be observed	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1349: Fast bo ADASVISION-1576: First bo	oot mode oot - Boot optimization (TDA3x)	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-119: Fast_Boot_AR140_Sensor_10inch_LCD_RTI

Summary:

Fast Boot UC - 1CH ISS Capture + ISP + LDC + Obj detect + Display

Capture - AR140 sensor

Display - 10 inch LCD

Binaries - TDA3xx FastBoot QSPI Binaries

Preconditions:

Verify I2C to run at 400KHz

Verify RTI is enabled in the Build

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Follow UserGuide & Flash	Flashing should be successfull	

	FastBoot QSPI Binaries on TDA3xx	
2	Boot EVM	Display should flash up with preview in < 1 sec Usecase should switch to Object detect algorithm and Pedestrian / Traffic signs detection should start as soon as they are in field of view after boot up 3.You should see boot time printed on the LCD 4.Display must come up and no buffer drops should be observed
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
	ADASVISION-1349: Fast bo ADASVISION-1509: RTI su ADASVISION-1576: First bo	
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-120: Fast_Boot_AR140_Sensor_10inch_LCD_Performance

Summary:

Fast Boot UC - 1CH ISS Capture + ISP + LDC + Obj detect + Display

Capture - AR140 sensor

Display - 10 inch LCD

Binaries - TDA3xx FastBoot QSPI Binaries

Preconditions:

Verify I2C to run at 400KHz

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Follow UserGuide & Flash FastBoot QSPI Binaries on TDA3xx	Flashing should be successfull	
2	Boot EVM	Display should flash up with preview in < 1 sec Usecase should switch to Object detect algorithm and Pedestrian / Traffic signs detection should start as soon as they are in field of view after boot up 3.You should see boot time printed on the LCD 4.Display must come up and no buffer drops should be observed	
3	Check Performance stats for 1. SBL time 2. Sensor initialization time with I2C 400 KHz 3. Time take by Framework 4. Power On Reset to Display Time 5. Power On to reset to Object Detect 6. Low power load	Performance stats should match with datasheet of release binaries	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1349: Fast boot mode ADASVISION-1576: First boot - Boot optimization (TDA3x)		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		

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

1.3.Test Suite: SRV

1.3.1.Test Suite: VIP_SRV

1.3.1.1.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 genearte 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 genearte LUT.BIN if required

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source shuld be OV10635 & Display device as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "4CH VIP Capture + Surround View (DSP) + Display (HDMI)" UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1275: VIP Capture Link to support ADASVISION-1280: VIP Capture Link to support ADASVISION-1290: VIP Capture Link - Detect National Processing of the ADASVISION-1295: Display Link support for various ADASVISION-1300: Display Link - Video windown ADASVISION-1308: Display Link - support for capture ADASVISION-1321: Display Link - Support 8-bit ADASVISION-1582: Shall support LVDS multi-capture ADASVISION-1584: Shall support all the Bios sapport ADASVISION-830: For all SRV - DSP load optim	t Inline scaling both down scale and upscale VIP port overflow & Reset rious input data formats w positioning support usom resolutions t TDM mode display hannel capture upto 4 channel ingle multi camera usecases which use one DS	SP & M4
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display		

Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-146: VIP_2D_SRV_OV10635_913deser_without_TDAXX_Folder

Summary:

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

Input: OV10635 with 913/914 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

In case of TDA3x:

Ensure TDA3x folder not present in SD card

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

3 p . ,			Execution
<u>#:</u>	Step actions:	Expected Results:	Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source shuld be OV10635 & Display device as HDMI 1080P (TDA2x/TDA2Ex), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "4CH VIP Capture + Surround View (DSP) + Display (HDMI)" UC	Display must come up and no buffer drops should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1275: VIP Capture Link to suppor ADASVISION-830: For all SRV - DSP load opting		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.3.2.Test Suite: CAL_SRV

1.3.2.1.Test Suite : 2D_SRV

Test Case VISIONSDK-128: ISS_2D_SRV_960/964deser

Summary:

ISS 2D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB & 128MB

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
	Go to System Settings	Capture Source shuld be		
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or		
1	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)		
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run "4CH ISS capture + ISS ISP + Simcop + Surround View (DSP1) + Display" UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1396: 4ch 2D surround view with OV10640 Bayer sensors ADASVISION-1579: low cost surround view with TDA3x			
Keywords:	tda3xx-evm tda3xx_rvp c_qualification m_iss			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-130: ISS_2D_SRV_960/964deser_AE_AWB

Summary:

ISS 2D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	Capture Source shuld be	
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	
1	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user	
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P	
	Go to ISS setting		
2	Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Selected ISS settings will be saved	
3	Run "4CH ISS capture + ISS ISP + SIMCOP +	Display must come up and no buffer drops should be observed	
	Surround View (DSP1) + Display" UC	All the details in the scene should be visible. Noise levels should be very low.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1579: low cost surround view with 1	TDA3x	
Keywords:	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-148: ISS_2D_SRV_960/964deser_without_TDA3X_Folder

Summary:

ISS 2D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

Ensure TDA3x folder not present in SD card

Verify whether display shows a smooth stitching of all 4 cameras. All running at 30fps, Also check performance stats match with datasheet Execution **Expected Results:** #: Step actions: Status: Capture Source shuld be Go to System Settings OV10640 Sensor for SV - IMI (TDA3x Select Capture Source as ONLY) or "OV10640 Sensor for SV - IMI (TDA3x ONLY)" AR0140 Sensor for SV - TIDA00262 1 (TDA3x ONLY) depending upon the hardware "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" connected & selected by user & Display Output as HDMI 1080P & Display device as HDMI 1080P Display must come up and no buffer Run "4CH ISS capture + ISS ISP + Simcop + 2 drops should be observe Surround View (DSP1) + Display" UC Execution type: Manual Estimated exec. duration (sec): Medium Priority: ADASVISION-1167: Error handling requirements Requirements ADASVISION-1526: Error handling ADASVISION-1579: low cost surround view with TDA3x Keywords: tda3xx-evm tda3xx_rvp **Execution Details** Build REL_3_6 Tester x0246581 **Execution Result: Passed Execution Mode:** Manual Execution duration (sec):

1.3.2.2.Test Suite: 3D_SRV

Test Case VISIONSDK-131: ISS_3D_SRV_960/964deser

Summary:

ISS 3D SRV UC

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

or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 512MB & 128MB

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as	Capture Source shuld be OV10640 Sensor for SV - IMI (TDA3x	
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user	

	& Display Output as HDMI 1080P	& Display device as HDMI 1080P
	a Display Output as FIDIVII 1080P	Display must come up and no buffer drops
		should be observed
:	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	All the details in the scene should be visible. Noise levels should be very low.
xecution type:	Automated	
Estimated exec. duration sec):	60.00	
	Medium	
sec): Priority: Requirements	Medium	: Distortion table optimization camera in UB964 rious input data formats mode display w positioning support instance support y support standard display resolutions ustom resolutions upport for Video planes support for Video planes support of Grpx and Video planes support of Color of VENC by Color Key Selection support in material support for Video planes support for V
	ADASVISION-1644: ISP Based SRV: Configura ADASVISION-1645: ISP Based SRV: Configura ADASVISION-1647: ISP Based SRV: Compress ADASVISION-1684: ISP Based SRV: Updated i ADASVISION-1685: ISP Based SRV: Parametri	ble blend seam start point sion of LUT's nterface of Mesh Generation Tool c transition between view points
	ADASVISION-1686: ISP Based SRV: Adaptive I ADASVISION-1687: ISP Based SRV: Compress ADASVISION-1688: ISP Based SRV: Generatin ADASVISION-1701: AR143 (MARs) Camera an ADASVISION-1709: TDA3x SRV: Add multi can	bowl support on LDC Surroundview sion and reorganization of V2W Table(s) g Car Box Edges/view d Fusion board support on TDA2Px

	ADASVISION-830: For all SRV - DSP load optimization using SIMD ADASVISION-889: 3D SRV on TDA3x – Enhancements ADASVISION-932: TDA3x 3D SRV on 128MB memory map ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR
Keywords:	tda3xx-evm tda3xx_rvp c_qualification
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-133: ISS_3D_SRV_960/964deser_360_transition

Summary:

ISS 3D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	Capture Source shuld be	
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	
1	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user	
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP +	Display must come up and no buffer drops should be observed	
	DeWarp + Synthesis (DSP1) + Display" UC	All the details in the scene should be visible. Noise levels should be very low.	
3	Check for 3D SRV transition	SRV transition should cover 360 degree	
		On selecting "s"	
		Transitions should stop	
	Check User is able to Start/Stop transition	On selecting "n"	
	Select "s" to Start/Stop transition	Transition should happen to next view point	
1	Select "n" to change to next View Point	On selecting "r"	
	Select "r" to change to previous View Point	Transition should happen to previous view point	
		On selecting "s" again	
		Transition should start normally	
Execution type:	Manual		

Estimated exec. duration (sec):	
Priority:	Medium
Requirements	ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaround (Phase 1) ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment ADASVISION-1068: TDA3x 3D SRV: Auto calculate number of slice parameters ADASVISION-1069: TDA3c 3D SRV: Lens type: Distortion table ADASVISION-1071: TDA3x 3D SRV: Boot time optimization ADASVISION-1527: API config outbound check ADASVISION-1736: Enable AEWB for all 4 Channels for ISS based 3D SRV on TDA2Px and TDA3x ADASVISION-889: 3D SRV on TDA3x – Enhancements ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR
Keywords:	tda3xx-evm tda3xx_rvp c_integration
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-134: ISS_3D_SRV_960/964deser_Dump_Frames

Summary:

ISS 3D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source shuld be OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & selected by user & Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low.	
3	Select "1" to Save a Captured RAW frame from channel 0 (Will be saved in DDR) Select "2" to Save a DeWarp Output Frame (Will be saved in DDR) Select "3" to Save ISP output frames (Will be saved in MMC/SD : All channels)	On selecting "1" RAW frame from channel 0 should be saved in DDR On selecting "2" DeWarp Output Frame should be saved in DDR	

019	testreport PSDKV_lest_Plan_3_6_Functional_IDA3xx	
	Select "d" to Save Display Frame to MMC/SD card	On selecting "3"
		ISP output frames should be saved in MMC/SD : All channels
		On selecting "d"
		Display Frame should be saved to MMC/SD card
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements Keywords:	ADASVISION-1036: TDA3x 3D SRV: 360 degree fl ADASVISION-1037: TDA3x 3D SRV: Improve imag Photometric alignment ADASVISION-1068: TDA3x 3D SRV: Auto calculat ADASVISION-1069: TDA3c 3D SRV: Lens type: D ADASVISION-1071: TDA3x 3D SRV: Boot time op ADASVISION-1542: Algorithm Link Support (Frame ADASVISION-1543: Algorithm Link Support for all (ADASVISION-1544: Algorithm Link Support Multiple ADASVISION-1546: Algorithm Link Support Multiple ADASVISION-1547: Algorithm Link Support Multiple ADASVISION-1548: Algorithm Link Support Multiple ADASVISION-1549: Algorithm Link Support Multiple ADASVISION-1550: Algorithm Link Support Memor ADASVISION-1551: Algorithm Link Support DSP stad ADASVISION-1552: Algorithm Link Support System ADASVISION-1553: Algorithm Link Support Non-In ADASVISION-1554: Algorithm Link Support Non-In ADASVISION-1555: Algorithm Link Support Non-In ADASVISION-1556: Algorithm Link Support Multiple ADASVISION-1556: Algorithm Link Support Alg Co	ing for SRV with Improve AE stability & Integrate te number of slice parameters istortion table timization ework and Skeleton portion) CPU cores zation e instantiation e input and output queues e input channels order release of input and output buffers ry allocations ubsystem DMA resource allocations ubsystem DMA resource allocations n DMA resource allocations e computation support place computation support e Algos nfigurations incomments
	tda3xx_rvp	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-135: ISS_3D_2D_SRV_960/964deser

Summary:

ISS 2D + 3D SRV UC

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

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

• • •	•		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be	
	Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)"	OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262	
	or	(TDA3x ONLY)	

019	testreport PSDKV_Test_Plan_3_6_Functional_TDA3xx		
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user	
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run "3D + 2D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1398: IPC between M4s ADASVISION-1399: IPC between DSPs ADASVISION-1402: IPC between M4 & DSP ADASVISION-1402: IPC between M4 & EVE ADASVISION-1405: IPC between DSP & EVE ADASVISION-1405: IPC between DSP & EVE ADASVISION-1406: ISS multi-channel capture ADASVISION-1467: ISS multi-channel capture ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1468: ISS M2M -ISP - repizer ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-14712: ISS M2M -ISP - work modes ADASVISION-1472: ISS M2M -ISP - resizer ADASVISION-1472: ISS M2M -ISP multiple instance ADASVISION-1474: ISS M2M -ISP multiple instance ADASVISION-1474: ISS M2M -ISP multiple instance ADASVISION-1476: ISS M2M -ISP - resizer ADASVISION-1476: ISS M2M RSZ - resizer ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - reutput data format ADASVISION-1485: ISS M2M RSZ - reutput data format ADASVISION-1486: ISS M2M RSZ - multi-instance ADASVISION-1487: ISS M2M RSZ - multi-instance ADASVISION-1489: ISS M2M RSZ - multi-instance ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1503: ESM support ADASVISION-1504: DAP MPU support ADASVISION-1505: ESM support ADASVISION-1506: DAP MPU support ADASVISION-1519: duplication of frames across multiple channels ADASVISION-1519: duplication of for frames across multiple channels ADASVISION-1519: Merging of multiple outputs ADASVISION-1520: Merging of multiple outputs ADASVISION-1520: AR143 (MARs) Camera and Fusion board support on TDA2PX ADASVISION-1822: ZD+3D SRV on TDA3x		
Keywords:	tda3xx-evm tda3xx_rvp c_regression c_stress c_qualification c_stability m_iss m_algorithm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-136: ISS_3D_SRV_Rearview_960/964deser

Summary:

ISS 3D SRV + Rearview UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	Capture Source shuld be	
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	
1	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user	
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + RearView + Display" UC	Display must come up with 3D SRV output & Rear view cameara output and no buffer drops should be observed	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1038: TDA3x 3D SRV: 3D + Rear view U ADASVISION-1397: Rear Camera usecase ADASVISION-1518: Synchronization of frames across of ADASVISION-1519: duplication of output ADASVISION-1520: Merging of multiple outputs ADASVISION-1521: select a particular channel ADASVISION-1522: Dummy Sink (Null Link) ADASVISION-1523: Dummy source (NUIISrc Link) ADASVISION-269: TDA3x: CMS & Rear Camera augm ADASVISION-830: For all SRV - DSP load optimization	multiple channels ented reality visualization on rear view m	nirror
Keywords:	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-144: ISS_3D_SRV_960/964deser_without_TDA3X_Folder

Summary:

ISS 3D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

Ensure TDA3x folder not present in SD card

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

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

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<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	Capture Source shuld be	
	Select Capture Source as	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	
1	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	"AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	depending upon the hardware connected & selected by user	
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	It throws error	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaror ADASVISION-1037: TDA3x 3D SRV: Improve imaging f Photometric alignment ADASVISION-1068: TDA3x 3D SRV: Auto calculate nu ADASVISION-1069: TDA3c 3D SRV: Lens type: Distort ADASVISION-1071: TDA3x 3D SRV: Boot time optimiz ADASVISION-1167: Error handling requirements ADASVISION-1526: Error handling ADASVISION-962: TDA3x 3D SRV: Enabling 2A and W	or SRV with Improve AE stability & Integon mber of slice parameters cion table ation	grate
Keywords:	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-321: ISS_3D_SRV_960/964deser_Different_Output_resolution

Summary:

ISS 3D SRV UC

Input: IMI OV10640 / TIDA AR140 with 960 deserializer

or OV10635 with 964 deserialize

Output : HDMI 1080P Binaries: 512MB & 128MB

Preconditions:

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

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

Run SRV calibration UC if required to generate LUT.BIN

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Change output resolution for 3D SRV UC & build	User should be able to build for different resolution than default	
2	Go to System Settings	Capture Source shuld be	
	Select Capture Source as		

019	testreport PSDKV_Test_	_Plan_3_6_Functional_TDA3xx
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)"	OV10640 Sensor for SV - IMI (TDA3x ONLY) or
	or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)"	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)
	& Display Output as HDMI 1080P	depending upon the hardware connected & selected by user
		& Display device as HDMI 1080P
		Display must come up and no buffer drops
3	Run "3D SRV 4CH ISS capture + ISS ISP + DeWarp + Synthesis (DSP1) + Display" UC	All the details in the scene should be visible. Noise levels should be very low.
Execution type:	Automated	
Estimated exec. duration (sec):	60.00	
Priority:	Medium	
Keywords:	Photometric alignment ADASVISION-1069: TDA3x 3D SRV: Auto calcu ADASVISION-1069: TDA3c 3D SRV: Lens type: ADASVISION-1069: TDA3x 3D SRV: Boot time ADASVISION-1466: ISS multi-channel capture ADASVISION-1466: ISS multi-channel capture ADASVISION-1467: ISS M2M -ISP - GLBCE sel ADASVISION-1469: ISS M2M -ISP - output data ADASVISION-1470: ISS M2M -ISP - input data f ADASVISION-1470: ISS M2M -ISP - wDR mode ADASVISION-1473: ISS M2M -ISP multiple insta ADASVISION-1473: ISS M2M -ISP multiple insta ADASVISION-1474: ISS M2M -ISP multiple insta ADASVISION-1481: ISS M2M RSZ - resizer ADASVISION-1483: ISS M2M RSZ - output data ADASVISION-1485: ISS M2M RSZ - multi-instar ADASVISION-1485: ISS M2M RSZ - multi-instar ADASVISION-1488: ISS M2M RSZ - multi-instar ADASVISION-1489: ISS M2M RSZ - multi-instar ADASVISION-1649: ISS M2M RSZ - multi-CH ADASVISION-1606: Algo Link DeWarp for multip ADASVISION-1641: ISS: Capture Link & M2M IS ADASVISION-1645: ISP Based SRV: Configurat ADASVISION-1645: ISP Based SRV: Configurat ADASVISION-1647: ISP Based SRV: Compressi ADASVISION-1686: ISP Based SRV: Updated in ADASVISION-1685: ISP Based SRV: Compressi ADASVISION-1685: ISP Based SRV: Parametric ADASVISION-1686: ISP Based SRV: Compressi ADASVISION-1686: ISP Based SRV: Generating ADASVISION-1688: ISP Based SRV: Compressi ADASVISION-1688: ISP Based SRV: Compressi ADASVISION-1688: ISP Based SRV: Denerating ADASVISION-1686: ISP Based SRV: Compressi ADASVISION-1688: ISP Based SRV: Compressi ADASVISION-1689: ISP Based SRV: Denerating ADASVISION-1686: ISP Based SRV: Compressi ADASVISION-1689: ISP Based SRV: Compressi ADASVISION-1689: ISP Based SRV: Compressi ADASVISION-1680: IS	Distortion table optimization ection format ormat ore on the control of the
Execution Details	c_qualification	
Build	REL 3 6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

1.3.3.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.

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

	10011000111 02111	
		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
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-854: Support for handling re ADASVISION-883: Improved auto-calibrat	- auto slection of ROI for Surround View (1MB Vs 2MB) egion-of-interest input frame for 3DSRV & 2DSRV use-cases ion for 2D & 3D c algorithm should work on shadowed buffers
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_qualification	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-138: SRV_Calibration_UC_manual_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input: OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

019	testreport PSDKV_Test_Plan_3_6_Function	nai_TDA3xx
	depending upon the hardware connected	OV10640 Sensor for SV - IMI (TDA3x ONLY) or
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	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)
		Display must come up with mosaic view of all 4 cameras
2	Run "SRV Calibration" UC	and no buffer drops should be observe
3	Select Manual Calibration & generate CALMAT	should be able to generate CALMAT.BIN
	Remove the card &	Should be able to generate
4	refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide	PERSMAT.BIN (in case of TDA2x/TDA2ex)
	to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	& LUT.BIN (in case of TDA3x)
	Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	
5	to MMC/SD card & insert into EVM & Run any SRV UC	SRV output should be proper
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-854: Support for handling region-of-interest input frar ADASVISION-984: Calibration: Allow to pass a parameter where al from/written ADASVISION-999: Performance: Complex algorithm should work o	I the generated files get read
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-139: SRV_Calibration_UC_default_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input: OV10635 with 913/914 deserializer or

lmx290 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.

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	Conture Source abuild be	Status.
	, ,	Capture Source shuld be	
	Select Capture Source as OV10635 Sensor 720P30 or	OV10635 Sensor 720P30 or	
	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	
1	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	OV10640 Sensor for SV - IMI (TDA3x ONLY) or	
	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	depending upon the hardware connected	depending upon the hardware connected	
	& Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	& Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
		Display must come up with mosaic view of all 4 cameras	
2	Run "SRV Calibration" UC	and no buffer drops should be observe	
		On selecting Default calibration	
		It will generate	
3	Select Default Calibration	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	
Execution type:	Manual		
Estimated exec. duration			
(sec): Priority:	Medium		
		(; , , , , , , , , , , opopy, a apopy,	
Requirements	1	-of-interest input frame for 3DSRV & 2DSRV use-	-cases
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-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.

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

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

Test Case VISIONSDK-141: SRV_Calibration_UC_auto_calibration_update_2D_PERSMAT

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input: OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

·	
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)
Select "7" to Update 2D Pers Mat (after auto/manual calibration if required)	On selecting "7" 2D Pers Mat should be updated
Manual	
Medium	
ADASVISION-854: Support for handling region ADASVISION-883: Improved auto-calibration	n-of-interest input frame for 3DSRV & 2DSRV use-cases for 2D & 3D
tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
REL_3_6	
x0246581	
Passed	
Manual	
	Select "7" to Update 2D Pers Mat (after auto/manual calibration if required) Manual Medium ADASVISION-854: Support for handling regio ADASVISION-883: Improved auto-calibration tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp REL_3_6 x0246581 Passed

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

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

Test Case VISIONSDK-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.

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be	
	Select Capture Source as OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY)	
	OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)	
	depending upon the hardware connected & Display Output as HDMI 1080P	& 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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-854: Support for handling region ADASVISION-883: Improved auto-calibration	n-of-interest input frame for 3DSRV & 2DSRV use-casor 2D & 3D	ses
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.3.4.Test Suite: FastBoot_SRV

Test Case VISIONSDK-255: FastBoot_ISS_3D_SRV_960/964deser

Summary:

ISS 3D SRV UC

Input: IMI OV10640 with 960/964 deserializer

Output : HDMI 1080P Binaries: 512MB Preconditions:

Build binaries with SRV_FAST_BOOT_INCLUDE=yes

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

Run SRV calibration UC if required to generate LUT.BIN

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

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<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot EVM with Fastboot SRV binaries	EVM should boot with Fastboot SRV binaries & Display should come up no buffer drops should observe	
2	Check Boot time	Boot time should match with release numbers	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1037: TDA3x 3D SF Photometric alignment	RV : Boot time optimization PSP load optimization using SIMD A3x – Enhancements V on 128MB memory map	& Integrate
Keywords:	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.Test Suite : Mono_Cam

1.4.1.Test Suite: VIP

1.4.1.1.Test Suite : VIP_SingleCam_Capture_Display

Test Case VISIONSDK-1:	: VIP_Capture_Display_Input_OV106	35_Output_7inch_LCD	
Summary:			
Capture Display UC			
Input : OV10635			
Output : 7" LCD			
Preconditions:			
Verify that Capture is runn	ing on IPU1-0 at 30fps and display run	ning on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings		
	Select Capture Source as OV10635	0 1 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	
1	Sensor	Capture Source shuld be OV10635 Sensor	
	& Display Output as 7" LCD	& 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		
ADASVISION-1274: VIP Capture Link to support Single channel capture ADASVISION-1291: VIP Capture Link to support Cropping of output video ADASVISION-1305: Display Link - LCD display support ADASVISION-1311: Display Link - Color keying support ADASVISION-1312: Display Link - Set back Ground Color of VENC ADASVISION-1316: Display Link - LCD timing configuration ADASVISION-1318: Display Link - VENC section ADASVISION-1322: Support OV10635 video sensors ADASVISION-1330: support LCD displays ADASVISION-1332: Set Brightness levels of LCD display ADASVISION-1381: 1CH VIP capture + Display			
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_capture m_display		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-2: VIP_Capture_Display_Input_OV10635_Output_HDMI_720P

Summary:

Capture Display UC

Input: OV10635 Output: HDMI 720P Preconditions: Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps Execution Step actions: **Expected Results:** Status: Go to System Settings Capture Source shuld be OV10635 Sensor Select Capture Source as OV10635 Sensor & Display device as HDMI 720P & Display Output as HDMI 720P Display must come up and no buffer drops should Run 1 Ch VIP capture + Display UC 2 be observe **Execution type:** Automated Estimated exec. duration 60.00 (sec): Priority: Medium Requirements ADASVISION-1279: VIP Capture Link to support Sensor capture ADASVISION-1284: VIP Capture Link to support Non-mux Discrete sync Hsync style capture modes ADASVISION-1285: VIP Capture Link to support Non-mux Discrete sync ACTVID style capture modes ADASVISION-1288: VIP Capture Link to support Progressive mode capture ADASVISION-1291: VIP Capture Link to support Cropping of output video ADASVISION-1293: VIP Capture Link - Capture HW configuration ADASVISION-1295: Display Link support for various input data formats ADASVISION-1298: Display Link - Progressive mode display ADASVISION-1299: Display Link - Inline scaling support in display ADASVISION-1306: Display Link - HDMI display support ADASVISION-1307: Display Link - Support for standard display resolutions ADASVISION-1311: Display Link - Color keying support ADASVISION-1312: Display Link - Set back Ground Color of VENC ADASVISION-1317: Display Link - Transparency Color Key Selection support ADASVISION-1318: Display Link - VENC section ADASVISION-1322: Support OV10635 video sensors ADASVISION-1329: Shall support multiple dsiplay devices - HDMI (on-chip) & LCD displays ADASVISION-1627: DSS Link: support override the input data format of the link. Keywords: tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm **Execution Details** Build REL_3_6 Tester x0246581 **Execution Result: Passed**

Test Case VISIONSD	0K-5: VIP_Capture_Display_Input_OV106	35_Output_HDMI_1080P	
Summary:			
Capture Display UC			
supported on all platfo	orms		
Input : OV10635/OV1	0640		
Output : HDMI 1080P			
Preconditions:			
Verify that Capture is	running on IPU1-0 at 30fps and display run	ning on IPU1-0 at 60fps	
should not change Ca	apture output dynamically		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be OV10635	
	Select Capture Source as OV10635	& Display device as HDMI 1080P	

Manual

Execution Mode:

Execution duration (sec):

1	testreport	DDRV_Test_Flait_5_0_1 unclional_TDA3XX
	& Display Output as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe
		TI logo should be on left top corner
3	Check for graphics elements displayed on screen	All load bars should be on left bottom corner
		Check performance stats
		Should print CPU Load of all cores,
4	Press "P"	Capture & Display FPS numbers
		DDR, Heap memory, OCMC, SR1, remote log buffer memory usage
Execution type:	Automated	
Estimated exec. duration (sec):	60.00	
Priority:	Medium	
Keywords:	supported ADASVISION-1284: VIP Capture Link ADASVISION-1285: VIP Capture Link ADASVISION-1287: VIP Capture Link ADASVISION-1288: VIP Capture Link ADASVISION-1288: VIP Capture Link ADASVISION-1288: VIP Capture Link ADASVISION-1308: Display Link - Dy ADASVISION-1301: Display Link - Dy ADASVISION-1306: Display Link - HE ADASVISION-1309: Display Link - Ble ADASVISION-1310: Display Link - Ble ADASVISION-1311: Display Link - Se ADASVISION-1312: Display Link - VE ADASVISION-1318: Display Link - VE ADASVISION-1322: Support OV1063 ADASVISION-1329: Shall support mu ADASVISION-1329: Shall support mu ADASVISION-1329: Capture + Displa ADASVISION-1530: Cache configurat ADASVISION-1530: Cache configurat ADASVISION-1531: Memory config ADASVISION-1533: Internal memory ADASVISION-1534: Internal memory ADASVISION-1535: Internal memory	to support Sensor capture -VIP capture with Dynamic output resolution change will not be to support Non-mux Discrete sync Hsync style capture modes to support Non-mux Discrete sync ACTVID style capture modes to support 8 bit, 16bit & 24bit Capture bus width to support Progressive mode capture ogressive mode display namic resolution change of input video namic output image resolution change OMI display support ending support of Grpx and Video planes ending support for Video planes lor keying support t back Ground Color of VENC ENC section 5 video sensors Itiple dsiplay devices - HDMI (on-chip) & LCD displays + Display y generic usecase using OV10640 opport tion allocation allocation from OCMC allocation from DSP L2 SRAM at create time only, no run time allocation from DSP L1 SRAM upport single channel capture the Bios single multi camera usecases which use one DSP & M4
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_stress c_performance c_qualification c_stability	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-112: VIP_Capture_Display_Input_OV10635_Output_10inch_LCD	
<u>Summary:</u>	

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

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

Test Case VISIONSDK-1	13: VIP_Capture_Display_Input_OV1	0635_Output_10inch_OSD_LCD	
Summary:			
Capture Display UC			
Input: OV10635			
Output : 10" OSD LCD			
Preconditions:			
Verify that Capture is runn	ing on IPU1-0 at 30fps and display run	ning on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor & Display Output as 10" OSD LCD	Capture Source shuld be OV10635 Sensor & Display device as 10" OSD LCD	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1274: VIP Capture Link	to support Single channel capture	

	ADASVISION-1305: Display Link - LCD display support
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-1	14: VIP_Capture_Display_Input_OV1	0635_Output_SD_PAL	
Summary:			
Capture Display UC			
Input : OV10635			
Output : SD PAL			
Preconditions:			
Verify that Capture is runr	ning on IPU1-0 at 30fps and display run	ining on IPU1-0 at 60fps	
<u>#:</u>	Step actions: Expected Results: Execution Status:		
	Go to System Settings		
1	Select Capture Source as OV10635 Sensor	Capture Source shuld be OV10635 Sensor	
	& Display Output as SD PAL	& Display device as SD PAL	
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		
<u>Requirements</u>	ADASVISION-1274: VIP Capture Link to support Single channel capture 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-1287: VIP Capture Link to support 8 bit, 16bit & 24bit Capture bus width ADASVISION-1289: VIP Capture Link to support Interlace mode capture ADASVISION-1295: Display Link support for various input data formats ADASVISION-1297: Display Link - Interlace mode display ADASVISION-1307: Display Link - Support for standard display resolutions ADASVISION-1320: Display Link - SDDAC		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-115: VIP_Cap	oture_Display_Input_OV10635_Output_SD_NTSC
Summary:	
Capture Display UC	
Input : OV10635	
Output : SD NTSC	

Preconditions:			
Verify that Capture is runn	ing on IPU1-0 at 30fps and display run	ning on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings		
1	Select Capture Source as OV10635 Sensor	Capture Source shuld be OV10635 Sensor	
	& Display Output as SD NTSC	& Display device as SD NTSC	
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-1284: VIP Capture Link to support Non-mux Discrete sync Hsync style capture modes ADASVISION-1287: VIP Capture Link to support 8 bit, 16bit & 24bit Capture bus width ADASVISION-1289: VIP Capture Link to support Interlace mode capture ADASVISION-1295: Display Link support for various input data formats ADASVISION-1297: Display Link - Interlace mode display ADASVISION-1307: Display Link - Support for standard display resolutions ADASVISION-1320: Display Link - SDDAC		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-29	Test Case VISIONSDK-296: VIP_Capture_Display_without_Sensor			
Summary:	Summary:			
Capture Display UC witho	ut sensor connected			
supported on all platforms				
Input : No Sensor connect	red			
Output : HDMI 1080P				
Preconditions:				
Verify that Capture is runn	ing on IPU1-0 at 30fps and display running	g on IPU1-0 at 60fps		
None of the sensors are c		,		
#:	Step actions:	Expected Results:	Execution Status:	
<u></u>	Go to System Settings	Capture Source shuld be OV10635		
1	Select Capture Source as OV10635	& Display device as HDMI 1080P		
	& Display Output as HDMI 1080P			
2	Run 1 Ch VIP capture + Display UC	Assert with sensor initialization fails		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Requirements	ADASVISION-1167: Error handling requirements ADASVISION-1526: Error handling			
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm			
Execution Details				

Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.4.1.2.Test Suite : VIP_Capture_FrameCopy_Display

Test Case VISIONSDK-7	: VIP_Capture_FrameCopy_DSP1_Display			
Summary:				
Capture FrameCopy Disp	lay UC on DSP1			
Input : OV10635				
Output : HDMI 1080P				
Preconditions:				
Verify that Capture is runn	ning on IPU1-0 at 30fps and display running on	IPU1-0 at 60fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P		
2	Run 1 Ch VIP capture + FrameCopy (DSP1) + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
<u>Requirements</u>	ADASVISION-1382: 1CH VIP capture + Alg Frame Copy (DSP1) + Display ADASVISION-1550: Algorithm Link Support DSP subsystem DMA resource allocations ADASVISION-1557: Support Sample Algorithm Link with separate input output buffers (Frame Copy Plug-Ins) ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M4			
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_algorithm			
Execution Details				
Build	REL_3_6			
Tester	x0246581	x0246581		
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-8: VIP_Capture_FrameCopy_EVE1_Display			
Summary:	Summary:		
Capture FrameCopy Display UC on EVE1			
Input : OV10635			
Output: HDMI 1080P			
Preconditions:			
Verify that Capture	is running on IPU1-0 at 30fps and o	display running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:

	teet.epe.t. e2.tt	
1	Go to System Settings	Capture Source shuld be OV10635
	Select Capture Source as OV10635	& Display device as HDMI 1080P
	& Display Output as HDMI 1080P	
2	Run 1 Ch VIP capture + FrameCopy (EVE1) + 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-1383: 1CH VIP capture + Alg I ADASVISION-1551: Algorithm Link Support I ADASVISION-1557: Support Sample Algorith Ins)	
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

1.4.1.3.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 runn	ing on IPU1-0 at 30fps and display running on	IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + SubFrameCopy (EVE1) + 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-1292: VIP Capture Link to supp	oort Slice/sub-frame wise capture	
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.1.4.Test Suite : VIP_Capture_IPC_Display

Test Case VISIONSDK-230: VIP_Capture_IPC_Display_Single_core Summary: Capture IPC Display UC with Single core supported on TDA2x/TDA2Ex/TDA3x Input: OV10635 Sensor Output: HDMI 1080P Scenrios: IPU1_0 -> DSP1 -> IPU1_0 IPU1_0 -> DSP2 -> IPU1_0 IPU1_0 -> EVE1 -> IPU1_0 IPU1_0 -> EVE2 -> IPU1_0 IPU1_0 -> EVE3 -> IPU1_0 IPU1_0 -> EVE4 -> IPU1_0 IPU1_0 -> IPU1_1 -> IPU1_0 IPU1_0 -> A15 -> IPU1_0 Preconditions: Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps Step actions: **Expected Results: Execution Status:** Check Logs of Capture IPC Display UC Capture should be running on IPU1-0 at 30fps and Run Testsuite Display should be running on IPU1-0 at 60fps Execution type: Manual Estimated exec. duration (sec): Medium Priority: ADASVISION-1398: IPC between M4s Requirements 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 tda2xx-evm Keywords: tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc **Execution Details** Build REL_3_6 x0246581 Tester **Execution Result: Passed Execution Mode:** Manual

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

Execution duration (sec):

Scenrios: IPU1_0 -> DSP1 -> IPU1_1 -> DSP2 -> IPU1_0 IPU1_0 -> EVE1 -> DSP1 -> A15_0 -> DSP1 -> IPU1_0 IPU1_0 -> EVE1 -> DSP1 -> A15_0 -> IPU1_0 IPU1_0 -> A15_0 -> DSP1 -> DSP2 -> IPU1_1 -> EVE1 -> IPU1_0 IPU1_0 -> EVE1 -> DSP1 -> EVE2 -> DSP2 -> EVE3 -> A15_0 -> IPU1_1 -> EVE4 (Repeated twice) -> IPU1_0 Preconditions: Verify that Capture is running on IPU1-0 at 30fps and display running on IPU1-0 at 60fps Step actions: **Expected Results: Execution Status:** Check Logs of Capture IPC Display UC Run Testsuite Capture should be running on IPU1-0 at 30fps and Display should be running on IPU1-0 at 60fps Manual Execution type: Estimated exec. duration (sec): Priority: Medium Requirements ADASVISION-1398: IPC between M4s ADASVISION-1399: IPC between DSPs ADASVISION-1400: IPC between EVEs ADASVISION-1401: IPC between M4 & A15 ADASVISION-1402: IPC between M4 & DSP ADASVISION-1403: IPC between M4 & EVE ADASVISION-1404: IPC between DSP & A15 ADASVISION-1405: IPC between DSP & EVE ADASVISION-1406: IPC between EVE & A15 ADASVISION-1410: shall support link sendcmd across all cores Keywords: tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm **Execution Details** Build REL_3_6 Tester x0246581 **Execution Result: Passed Execution Mode:** Manual Execution duration (sec):

1.4.1.5.Test Suite: VIP_Capture_Color_To_Gray_Display

Test Case VISIONSDK-1	67: VIP_Capture	_Color_To_Gray_Display	
Summary:			
Single Cam Capture Colo	r to Gray Display	uc	
supported on TDA2x/TDA	2Ex/TDA3x		
Input : OV10635 Sensor			
Output : HDMI 1080P			
Preconditions:			
Verify that Capture is runr	ning on IPU1-0 at	30fps and display running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Run Testsuite	Check Logs of Capture Color to Gray Display UC Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
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_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.4.1.6.Test Suite: VIP_Capture_DSSWB_Display

Test Case VISIONSDK-179: VIP_Capture_DSSWB_CRC_Display

Summary:

Single Cam Capture DSSWB CRC Display UC

supported on 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>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run "1CH VIP capture + DSSWB + CRC + Display (Supported only on TDA3x)" UC	Display must come up & no buffer drop should be observed	
3	Pause the video Play the video	After pause, frame freeze event detect should be displayed On resume, frame freeze event detect display should be erased	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1264: DSS M2M link in VSDK to supp ADASVISION-1283: VIP Capture Link to support DS ADASVISION-1507: CRC support ADASVISION-1589: Support Frame Freeze detection	S write back capture	RC
Keywords:	tda3xx-evm c_qualification		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-180: VIP_Capture_DisplayMultipipe_DSSWB_Metadata

Summary:

Single Cam Capture Display Multipipe DSSWB Metadata UC

supported on 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>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run "1CH VIP capture + DisplayMultiPipe + DSSWb + Metadata" UC	Display must come up & no buffer drop should be observed	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1136: New display Module suppor ADASVISION-1319: Display DSS write back Lini		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.1.7.Test Suite: VIP_Capture_VPE_Display

Test Case VISIONSDK-1	89: VIP Capture \	VPE Display	
Summary:			
Single Cam Capture VPE	Display UC		
supported on TDA2x/TDA	2Ex/TDA3x		
Input : OV10635 Sensor			
·			
Output : HDMI 1080P Preconditions:			
, ,		0fps and display running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
		Check Logs of Capture VPE Display UC	
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and	
		display should be running on IPU1-0 at 60fps	
Execution type:	Manual	a spire, a second a second a second	
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-137 ADASVISION-137 ADASVISION-137 ADASVISION-137 ADASVISION-137 ADASVISION-137 ADASVISION-137 ADASVISION-137	69: VPE link to support scaling of input video 70: VPE link to support de-interlacing 71: VPE link to support multiple output queues 72: VPE link to support Multi instance 73: VPE link to support input type progressive 74: VPE link to support various Input Data Formats 75: VPE link to support various output data format 76: VPE link to support De-interlaced enable/disable 77: VPE link to support input resolution change 78: VPE link to support output resolution change 79: VPE link to support frame rate down sampling	
Keywords:	tda2xx-evm	· · · · · · · · · · · · · · · · · · ·	

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

1.4.1.8.Test Suite: VIP_SingleCam_Capture_Analytics_Display

Test Case VISIONSDK-9:	VIP_Capture_Edge_detect_Display		
Summary:			
VIP Capture Edge Detect	Display UC with EVE1		
Input : OV10635			
Output : HDMI 1080P			
Preconditions:			
Verify that Capture is runn	ing on IPU1-0 at 30fps and display running or	n IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Edge Detect (EVE1) + 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-1385: 1CH VIP capture + Edg	e Detect (EVE1) + Display	
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSI	DK-10: VIP_Capture_DOF_1Pyramid_Display		
Summary:			
VIP Capture DOF Dis	splay UC with 1 Pyramid		
Input : OV10635			
Output : HDMI 1080F			
Preconditions:			
Verify that Capture is	running on IPU1-0 at 30fps and display running or	n IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be OV10635	
	Select Capture Source as OV10635	& Display device as HDMI 1080P	

	& Display Output as HDMI 1080P	
2	Run 1 Ch VIP capture + Dense Optical Flow (EVEx) + Display UC with 1 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 Opti ADASVISION-1554: Algorithm Link Support Non-In pl	
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

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

7 7			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + 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 Opt	ical Flow (EVEx) + Display	
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.1.9.Test Suite: VIP_Capture_Display_IPU_SMP_BIOS

Test Case VISIONSDK-342: VIP_Capture_Display_Input_OV10635_Output_HDMI_1080P

Summary:

Capture Display UC with IPU SMP BIOS

supported on TDA3x

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 IPU_SMP_BIOS=yes

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	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-1835: Enable SMF	support for IPU1_0 and IPU1_1	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.2.Test Suite: HDMI

1.4.2.1.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 runn	ing on IPU1-0 at 30fps and displa	y running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as LCD	Capture Source shuld 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 ADASVISION-1305: Display Link ADASVISION-1323: capture from ADASVISION-1330: support LCD ADASVISION-1331: support for H	s - LCD display support n HDMI source D displays	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression m_capture m_display		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
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 runn	ing on IPU1-0 at 30fps and display	y running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution

019	testrepo	ort PSDKV_Test_Plan_3_6_Functional_TDA3xx	
			Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI	Capture Source shuld be HDMI & Display device as HDMI	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1287: VIP Capture ADASVISION-1288: VIP Capture ADASVISION-1296: Display Link ADASVISION-1298: Display Link ADASVISION-1300: Display Link ADASVISION-1306: Display Link ADASVISION-1306: Display Link	Link to support Non-mux Embedded sync capture mode Link to support 8 bit, 16bit & 24bit Capture bus width Link to support Progressive mode capture - Display support for ARGB 16/24/32 bit data formats - Progressive mode display - Video window positioning support - Active video channel selection - HDMI display support - Digital Output data format with discrete sync - VENC section - HDMI source	s
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_qualification c_integration		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.2.2.Test Suite : HDMI_Capture_Analytics_Display

Test Case VISIONSDK-14	4: HDMI_Capture_SOF_Display		
Summary:			
HDMI Capture SOF Displa	ay UC		
Input : HDMI			
Output : HDMI			
Preconditions:			
	ows flow vectors of the captured input stats match with datasheet		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + 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	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		

Requirements	ADASVISION-1389: 1CH HDMI capture + Sparse Optical Flow (EVEx) + Display
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

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>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + Lane Detect (DSP1 + EVE1) + 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-1391: 1CH HDMI capture + Lane Detection (DSP+EVE) + Display		
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

& Display Output as HDMI 1080P	
Run 1CH VIP capture (HDMI) + Traffic Light Recognition (TLR) (DSP1) + Display UC	Display must come up and no buffer drops should be observe
Automated	
60.00	
Medium	
ADASVISION-1278: VIP Capture Link to support HDMI ADASVISION-1323: capture from HDMI source ADASVISION-1331: support for HDMI (off chip) via AD	·
tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm	
REL_3_6	
x0246581	
Passed	
Manual	
	Run 1CH VIP capture (HDMI) + Traffic Light Recognition (TLR) (DSP1) + Display UC Automated 60.00 Medium ADASVISION-1278: VIP Capture Link to support HDMI ADASVISION-1323: capture from HDMI source ADASVISION-1331: support for HDMI (off chip) via AD tda2xx-evm tda2xx-evm tda2ex-evm tda2ex-entry tda2ex-entry tda2px-evm REL_3_6 x0246581 Passed

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>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	Capture Source shuld be HDMI	
1	Select Capture Source as HDMI	& Display device as HDMI 1080P	
	& Display Output as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + PD + 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-1390: 1CH HDMI capture	+ Pedestrian Detection (EVE+DSP) + Display	
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case	VISIONSDK-18: HDMI_	Capture	TSR	Display

Summary:

HDMI Capture Traffic Sign Detect Display UC

Input: HDMI

Output: HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + TSR + 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-1392: 1CH HDMI capture + Traffic sign detection (DSP1 + DSP2) + Display		
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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

All fulllling at 301ps, Also check performance stats match with datasheet				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P		
2	Run 1CH VIP capture (HDMI) + VD + Display UC	Display must come up and no buffer drops should be observe		
Execution type:	Automated			
Estimated exec. duration (sec):	ion 60.00			
Priority:	Medium			
Requirements	Requirements ADASVISION-1278: VIP Capture Link to support HDMI capture ADASVISION-1323: capture from HDMI source			
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			

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

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

0 1 7			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + 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 Sup	pport Multiple Algos	
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda2px-evm m_algorithm		
Execution Details			
Build	REL_3_6		
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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + 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-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-1549: 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
Keywords:	tda2xx-evm tda3xx-evm tda2px-evm c_stress c_stability m_algorithm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.4.3.Test Suite: ISS

1.4.3.1.Test Suite: ISS_SingleCam_Capture_Display_AR140

Test Case VISIONSDK-24: ISS_Capture_AR140_LM Summary: Linear mode - basic ISS functionality test ISS Single channle Capture UC with AR140 Input: AR140 sensor Output: HDMI 1080P Preconditions: Verify that Capture/Display is running on IPU1-0 at 30fps Execution <u>#:</u> Step actions: Expected Results: Status: Go to System Settings Capture Source shuld be AR140 Select Capture Source as AR140 & Display device as HDMI 1080P & Display Output as HDMI 1080P Display must come up and no buffer drops should be observed Run "1CH ISS capture + ISS ISP + ISS Exposure and colors should look correct. LDC+VTNF + Display" UC Most important - white/grey objects should not have any color cast **Execution type:** Automated Estimated exec. duration 60.00 (sec): Medium Priority: ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M Requirements LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1461: ISS capture - packing
ADASVISION-1464: ISS capture -non OTF mode - output dataformat ADASVISION-1465: ISS capture -OTF and non-OTF mode - input data format ADASVISION-1587: TDA3x ISS UC - SDK links and Utils to support static memory allocation ADASVISION-1604: Support sensor frame work Keywords: tda3xx-evm c qualification c_integration **Execution Details** Build REL_3_6 x0246581 Tester **Execution Result: Passed Execution Mode:** Manual Execution duration (sec):

Test Case VISIONSDK-25: ISS_Capture_AR140_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:			
Verify that Capture/display	is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed	
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 C LDC+VTNF + Display ADASVISION-1456: ISS capture - r	SI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS I	M2M
<u>Keywords:</u>	tda3xx-evm c_regression c_performance m_iss		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-26: ISS_Capture_AR140_LM_Dyanmic_Range

Summary:

Linear mode - dynamic range test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

romy and captaro, display			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. AE should adjust such that lowlights are visible and highlights are overexposed.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		

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

Test Case VISIONSDK-27: ISS_Capture_AR140_1PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

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

verify that Capture/display	y is running on it of t-o at solps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LV LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	DS/Paralle capture + ISS ISP M2M WDR + ISS I	M2M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-29: ISS_Capture_AR140_2PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be AR140	
	Select Capture Source as AR140	& Display device as HDMI 1080P	

	& Display Output as HDMI 1080P	
	Go to ISS setting	
2	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
Execution type:	Automated	
Estimated exec. duration (sec):	60.00	
Priority:	Medium	
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVI LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	DS/Paralle capture + ISS ISP M2M WDR + ISS M2M modes
Keywords:	tda3xx-evm c_stress c_stability	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-31: ISS_Capture_AR140_2PASS_WDR_Performance

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

verily triat Capture/display	/ is running on iPO i-o at solps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed	
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVI LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	OS/Paralle capture + ISS ISP M2M WDR + ISS M modes	12M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		

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

Test Case VISIONSDK-32: ISS_Capture_AR140_2PASS_WDR_Dynamic_Range

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

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

verily triat Capture/display	r is running on IPO 1-0 at 30lps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct in dark as well as bright regions. Dark regions maybe noisier than bright regions but NSF effect should be visible.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-33: ISS_Capture_AR140_2PASS_WDR_AE

Summary:

WDR mode - basic ISS functionality test ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be AR140	

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	Select Capture Source as AR140 & Display Output as HDMI 1080P	& Display device as HDMI 1080P
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Moving to dark scene should cause AE adjustment and increase in noise level.
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1491: Algorithm Link ISS	
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-34: ISS_Capture_AR140_2PASS_WDR_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Preview maybe noisy. Toggling between VTNF (0/1) should have visible impact on temporal noise.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface		

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	ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M - H3A ADASVISION-1479: ISS M2M (LDC + VTNF) - VTNF data format ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - output data format ADASVISION-1480: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-36: ISS_Capture_AR140_2PASS_WDR_LDC

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Preview must look undistorted		
Execution type:	Automated	utomated		
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1459: ISS capture - resolutic ADASVISION-1467: ISS M2M -ISP - GLBC ADASVISION-1468: ISS M2M -ISP - resize ADASVISION-1469: ISS M2M -ISP - output ADASVISION-1470: ISS M2M -ISP - input ADASVISION-1470: ISS M2M -ISP - WDR ADASVISION-1473: ISS M2M -ISP - resize ADASVISION-1475: ISS M2M - ISP - RESIZE ADASVISION-1475: ISS M2M (LDC + VTN ADASVISION-1478: ISS M2M (LDC + VTN ADASVISION-1480: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M RSZ - resize ADASVISION-1484: ISS M2M RSZ - output	on CE selection er It dataformat data format modes er IF) - LDC selection IF) - LDC data format IF) - LDC create time config		

	ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-white balance using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-37: ISS_Capture_AR140_2PASS_WDR_LDC_VTNF Summary: WDR mode - basic ISS functionality test ISS Single channle Capture UC with AR140 Input : AR140 sensor Output : HDMI 1080P Preconditions: Verify that Capture/display is running on IPU1-0 at 30fps #: Step actions: Expected Results: Expected Results: Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting Capture Source as HDMI 1080P

1	Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed LDC effect should be visible. If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1456: ISS capture - mode		

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Estimated exec. duration (sec):	60.00
Priority:	Medium
Requirements	ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1469: ISS M2M -ISP - input data format ADASVISION-1470: ISS M2M -ISP - wDR modes ADASVISION-1472: ISS M2M -ISP - wDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M -ISP - resizer ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC selection ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC data format ADASVISION-1478: ISS M2M (LDC + VTNF) - LDC create time config ADASVISION-1480: ISS M2M (LDC + VTNF) - VTNF data format ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config ADASVISION-1481: ISS M2M (LDC + VTNF) - yDR create time config ADASVISION-1482: ISS M2M (LDC + VTNF) - general ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1484: ISS M2M RSZ - input data format ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input

Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-38: ISS_Capture_AR140_2PASS_WDR_Color_Fidelity

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good. No color cast should be visible on lightbox walls and gray row of colorchecker. Colored patches should have the right hue.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-39: ISS_Capture_AR140_2PASS_WDR_Noise_Filter

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input: AR140 sensor Output: HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
2	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Run 1CH ISS capture + ISS + Display UC	Capture Source shuld be AR140 & Display device as HDMI 1080P Selected ISS settings will be saved Display must come up and no buffer drops should be observed	
3	Adjust lens to right focal length. Ensure dark lighting.	All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBC ADASVISION-1468: ISS M2M -ISP - resize ADASVISION-1469: ISS M2M -ISP - output ADASVISION-1470: ISS M2M -ISP - input	on CE selection er t dataformat	
	ADASVISION-1492: Algorithm Link ISS 2A input	modes er IF) - LDC selection er tt dataformat data format	g H3A data as
•	ADASVISION-1472: ISS M2M -ISP - WDR ADASVISION-1473: ISS M2M -ISP - resize ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M RSZ - resize ADASVISION-1484: ISS M2M RSZ - output ADASVISION-1485: ISS M2M RSZ - input ADASVISION-1490: Algorithm Link ISS 2A ADASVISION-1491: Algorithm Link ISS 2A ADASVISION-1492: Algorithm Link ISS	modes er IF) - LDC selection er it dataformat data format - Auto-exposure using H3A data as input - Auto-white balance using H3A data as input	g H3A data as
Execution Details	ADASVISION-1472: ISS M2M -ISP - WDR ADASVISION-1473: ISS M2M -ISP - resize ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M RSZ - resize ADASVISION-1484: ISS M2M RSZ - outpu ADASVISION-1485: ISS M2M RSZ - input ADASVISION-1490: Algorithm Link ISS 2A ADASVISION-1491: Algorithm Link ISS 2A ADASVISION-1492: Algorithm Link ISS 2A input tda3xx-evm	modes er IF) - LDC selection er it dataformat data format - Auto-exposure using H3A data as input - Auto-white balance using H3A data as input	g H3A data as
Execution Details Build	ADASVISION-1472: ISS M2M -ISP - WDR ADASVISION-1473: ISS M2M -ISP - resize ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M RSZ - resize ADASVISION-1484: ISS M2M RSZ - output ADASVISION-1485: ISS M2M RSZ - input ADASVISION-1490: Algorithm Link ISS 2A ADASVISION-1491: Algorithm Link ISS 2A ADASVISION-1492: Algorithm Link ISS 2A input tda3xx-evm	modes er IF) - LDC selection er it dataformat data format - Auto-exposure using H3A data as input - Auto-white balance using H3A data as input	g H3A data as
Execution Details Build Tester	ADASVISION-1472: ISS M2M -ISP - WDR ADASVISION-1473: ISS M2M -ISP - resize ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M RSZ - resize ADASVISION-1484: ISS M2M RSZ - output ADASVISION-1485: ISS M2M RSZ - input ADASVISION-1490: Algorithm Link ISS 2A ADASVISION-1491: Algorithm Link ISS 2A ADASVISION-1492: Algorithm Link ISS 2A input tda3xx-evm REL_3_6 x0246581	modes er IF) - LDC selection er it dataformat data format - Auto-exposure using H3A data as input - Auto-white balance using H3A data as input	g H3A data as
Keywords: Execution Details Build Tester Execution Result: Execution Mode:	ADASVISION-1472: ISS M2M -ISP - WDR ADASVISION-1473: ISS M2M -ISP - resize ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTN ADASVISION-1483: ISS M2M RSZ - resize ADASVISION-1484: ISS M2M RSZ - output ADASVISION-1485: ISS M2M RSZ - input ADASVISION-1490: Algorithm Link ISS 2A ADASVISION-1491: Algorithm Link ISS 2A ADASVISION-1492: Algorithm Link ISS 2A input tda3xx-evm	modes er IF) - LDC selection er it dataformat data format - Auto-exposure using H3A data as input - Auto-white balance using H3A data as input	g H3A data as

Test Case VISIONSDK-40: ISS_Capture_AR140_2PASS_WDR_DUMP_RAW_FRAMES Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input: AR140 sensor Output: HDMI 1080P

Preconditions:

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

Expected Results: Step actions: Execution

			Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes			
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-41: ISS_Capture_AR140_2PASS_WDR_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

verily that Capture/display	r is running on if o i-o at solps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture YUV images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts. YUV frame must match the display.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes		
Keywords:	tda3xx-evm		

Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec)	

Test Case VISIONSDK-42: ISS_Capture_AR140_2PASS_WDR_Read_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Use the command iss_read_sensor_reg to read chip ID (0x3000) and exposure register (0x3082)	Chip ID and exposure value must be read correctly	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes			
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-43: ISS_Capture_AR140_2PASS_WDR_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input: AR140 sensor

Output : HDMI 1080P			
Preconditions:			
Verify that Capture/display	is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the exposure register (0x3082)	Change of exposure value must be clearly visible on the display	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle captur LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes	re + ISS ISP M2M WDR + ISS M2M	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-44: ISS_Capture_AR140_2PASS_WDR_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Get the sensor.bin file from driver	There should not be any error/assertion in saving dcc file	

and save it using iss_save_dcc_file network command
Manual
Medium
ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes
tda3xx-evm
REL_3_6
x0246581
Passed
Manual

Test Case VISIONSDK-45	5: ISS_Capture_AR140_2PASS_WDR_Send_DC	C_Profile	
Summary:			
WDR mode - basic ISS fu	nctionality test		
ISS Single channle Captur	re UC with AR140		
Input : AR140 sensor			
Output : HDMI 1080P			
Preconditions:			
Verify that Capture/display	is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings		
1	Select Capture Source as AR140	Capture Source shuld be AR140	
	·	& Display device as HDMI 1080P	
	& Display Output as HDMI 1080P Go to ISS setting		
2		Selected ISS settings will be saved	
_	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	colocica ice collinge viii be carea	
		Display must come up and no buffer drops	
3	Run 1CH ISS capture + ISS + Display UC	should be observed. Exposure and colors should look correct.	
	Open Command Prompt on Host machine	New DCC profile must be used from the QSPI memory	
4	and send new sensor.bin file using	There should be a print on console	
	iss_send_dcc_file network command	indicating that	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Par LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes		M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		

Execution duration (sec):

Test Case VISIONSDK-46: ISS_Capture_AR140_2PASS_WDR_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR140

Input : AR140 sensor Output : HDMI 1080P

Preconditions:

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

vorify triat captaro, diopias			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR140 & Display Output as HDMI 1080P	Capture Source shuld be AR140 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Para LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes	lle capture + ISS ISP M2M WDR + ISS M2M	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.3.2.Test Suite: ISS_SingleCam_Capture_Display_OV10640

Test Case VISIONSDK-56: ISS_Capture_OV10640_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be OV10640	
	Select Capture Source as OV10640	& Display device as HDMI 1080P	

Execution type: Automated Automated Secimated exec. duration Seci. Automated 60.00 Seci. Medium ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1429: Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - csi2 mode ADASVISION-1459: ISS capture - csi2 mode ADASVISION-1469: ISS M2M - ISP - csi2er ADASVISION-1468: ISS M2M - ISP - csi2er ADASVISION-1468: ISS M2M - ISP - resizer ADASVISION-1470: ISS M2M - ISP - output data format ADASVISION-1473: ISS M2M - ISP - resizer ADASVISION-1473: ASS M2M - ISP - resizer ADASVISION-1473: ASS M2M - ISP - resizer ADASVISION-14745: ISS M2M RS2 - input data format ADASVISION-1483: ISS M2M RS2 - input data format ADASVISION-1493: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1604: Support sensor frame work Keywords: Execution Details Execution Result: Passed Execution Mode: Manual	019	testreport PSDKV_Test_Plan_3_6_Functional_TDA3xx		
LDC+VTNF + Display" UC Press "P" & check for FPS FPS should be in the range 29.5 - 30.5 Execution type: Stimated exec. duration Sec): Priority: Medium ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1457: ISS capture - Interface ADASVISION-1457: ISS capture - resizer ADASVISION-1459: ISS capture - resizer ADASVISION-1469: ISS subtre - CSI2 mode ADASVISION-1469: ISS M2M - ISP - GLBCE selection ADASVISION-1469: ISS M2M - ISP - resizer ADASVISION-1468: ISS M2M - ISP - input data format ADASVISION-1473: ISS M2M - ISP - input data format ADASVISION-1473: ISS M2M - ISP - input data format ADASVISION-1483: ISS M2M RS2 - resizer ADASVISION-1483: ISS M2M RS2 - resizer ADASVISION-1483: ISS M2M RS2 - output data format ADASVISION-1484: ISS M2M RS2 - output data format ADASVISION-1484: ISS M2M RS2 - output data format ADASVISION-1486: ISS M2M RS2 - output data format ADASVISION-1486: ISS M2M RS2 - output data format ADASVISION-1486: ISS M2M RS2 - resizer ADASVISION-1486: ISS M2M RS2 - output data format ADASVISION-1486: ISS M2M RS2 - output data format ADASVISION-1486: ISS M2M RS2 - input data format ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADA		& Display Output as HDMI 1080P		
Estimated exec. duration (Sec): Setimated exec. duration (Sec): Medium Requirements ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1456: ISS capture - Hore Processing + display use case ADASVISION-1456: ISS capture - Interface ADASVISION-1457: ISS capture - Interface ADASVISION-1457: ISS capture - CSI2 mode ADASVISION-1458: ISS capture - residence ADASVISION-1459: ISS capture - residence ADASVISION-1459: ISS capture - residence ADASVISION-1459: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1470: ISS M2M -ISP - resizer ADASVISION-1470: ISS M2M -ISP - resizer ADASVISION-1477: ISS M2M -ISP - resizer ADASVISION-1477: ISS M2M -ISP - resizer ADASVISION-1477: ISS M2M -ISP - resizer ADASVISION-1478: ISS M2M -ISP - resizer ADASVISION-1478: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M -ISS - resizer ADASVISION-1495: ISS M2M -ISS - re	2			
Second S	3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Medium	Execution type:	Automated		
ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: ISS capture - mode ADASVISION-1456: ISS capture - mode ADASVISION-1456: ISS capture - mode ADASVISION-1456: ISS capture - interface ADASVISION-1459: ISS capture - resolution ADASVISION-1459: ISS capture - resolution ADASVISION-1459: ISS capture - resolution ADASVISION-1468: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - cutput dataformat ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1470: ISS M2M -ISP - resizer ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1474: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M -ISP - resizer ADASVISION-1476: ISS M2M -ISP - resizer ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - input dataformat ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1604: Support sensor frame work Keywords: tda3xx-evm tda2xx-evm c_regression c_performance m_iss Execution Details Build REL_3_6 Tester x0246581 Execution Mode: Manual	Estimated exec. duration (sec):	60.00		
LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1456: ISS capture - interface ADASVISION-1458: ISS capture - CSI2 mode ADASVISION-1459: ISS capture - cesolution ADASVISION-1459: ISS capture - resolution ADASVISION-1469: ISS M2M -ISP - GIBCE selection ADASVISION-1468: ISS M2M -ISP - GIBCE selection ADASVISION-1468: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - output data format ADASVISION-1470: ISS M2M -ISP - resizer ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1483: ISS M2M RSZ - output dataformat ADASVISION-1484: ISS M2M RSZ - input data format ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1604: Support sensor frame work Keywords: tda3xx-evm tda2px-evm c_regression c_performance m_iss Execution Details Build REL_3_6 Tester x0246581 Execution Result: Passed Manual	Priority:	Medium		
tda2px-evm c_regression c_performance m_iss Execution Details Build REL_3_6 Tester x0246581 Execution Result: Passed Execution Mode: Manual	Requirements	LDC+VTNF + Display ADASVISION-1429: Capture + Display general ADASVISION-1436: Basic Capture + ISP properties of the pro	de n E selection dataformat lata format - Auto-exposure using H3A data as input - Auto-exposure for WDR mode operation using H3A data as	
Build REL_3_6 Tester x0246581 Execution Result: Passed Execution Mode: Manual	Keywords:	tda2px-evm c_regression c_performance		
Tester x0246581 Execution Result: Passed Execution Mode: Manual	Execution Details			
Execution Result: Passed Execution Mode: Manual	Build	REL_3_6		
Execution Mode: Manual	Tester	x0246581		
	Execution Result:	Passed		
Execution duration (sec):	Execution Mode:	Manual		
	Execution duration (sec):			

Test Case VISIONSDK-57: ISS_Capture_OV10640_LM_Dyanmic_Range

Summary:

Linear mode - dynamic range test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

voring triat captaroratopia	y to running on it or o at corpo		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. AE should adjust such that lowlights are visible and highlights are overexposed.	
Execution type:	Manual		

Estimated exec. duration (sec):	
Priority:	Medium
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1456: ISS capture - mode
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-59: ISS_Capture_OV10640_2PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LV LDC+VTNF + Display ADASVISION-1429: Capture + Display ger ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	•	2M
Keywords:	tda3xx-evm c_stress c_stability		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-60: ISS_Capture_OV10640_2PASS_WDR_Performance

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

romy and oupland alopia	,		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed	
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVI LDC+VTNF + Display ADASVISION-1429: Capture + Display gen ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	-	12M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-61: ISS_Capture_OV10640_2PASS_WDR_Dynamic_Range

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct in dark as well as bright regions.	

013	testreport i obitv	_1est_1 lan_5_6_1 unctional_1bAoxx
		k regions maybe noisier than bright regions but = effect should be visible.
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LV LDC+VTNF + Display ADASVISION-1429: Capture + Display ger ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	Ğ
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-6	2: ISS_Capture_OV10640_2PASS_WD	PR_AE	
Summary:			
WDR mode - basic ISS fu	nctionality test		
ISS Single channle Captu	re UC with OV10640		
Input : OV10640 sensor			
Output : HDMI 1080P			
Preconditions:			
Verify that Capture/display	is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Moving to dark scene should cause AE adjustment and increase in noise level.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1456: ISS capture - mod ADASVISION-1457: ISS capture - intel ADASVISION-1458: ISS capture - CSI: ADASVISION-1459: ISS capture - resc ADASVISION-1469: ISS M2M -ISP - GADASVISION-1468: ISS M2M -ISP - RADASVISION-1470: ISS M2M -ISP - MADASVISION-1470: ISS M2M -ISP - MADASVISION-1472: ISS M2M -ISP - MADASVISION-1473: ISS M2M -ISP - MADASVISION-1475: ISS M2M -ISP - MADASVISION-1475: ISS M2M RSZ - RADASVISION-1484: ISS M2M RSZ - RADASVISION-1485: ISS M2M RSZ - ISADASVISION-1489: ADASVISION-1490: Algorithm Link ISS ADASVISION-1491: Algorithm Link ISS	rface 2 mode 2 mode blution BLBCE selection esizer utput dataformat uput data format VDR modes esizer esizer utput dataformat	

	ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-63: ISS_Capture_OV10640_2PASS_WDR_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

, , , ,			Execution	
<u>#:</u>	Step actions:	Expected Results:	Status:	
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Preview maybe noisy. Toggling between VTNF (0/1) should have visible impact on temporal noise.		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1395: 1CH 720p30 CSI2 LDC+VTNF + Display ADASVISION-1429: Capture + Display ADASVISION-1436: Basic Capture + IS ADASVISION-1456: ISS capture - mod ADASVISION-1472: ISS M2M -ISP - W	SP processing + display use case le	M	
Keywords:	tda3xx-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed	Passed		
Execution Mode:	Manual	Manual		
Execution duration (sec):				

Test Case VISIONSDK-64: ISS_Capture_OV10640_2PASS_WDR_LDC

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor	
Output : HDMI 1080P	

Preconditions:

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

, captaro, alopia,	no ranning on it or o at corpo		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Preview must look undistorted	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LV LDC+VTNF + Display ADASVISION-1429: Capture + Display get ADASVISION-1436: Basic Capture + ISP p ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	processing + display use case	M2M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-65: ISS_Capture_OV10640_2PASS_WDR_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

	,		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed LDC effect should be visible. If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.	

Execution type:	Automated
Estimated exec. duration (sec):	60.00
Priority:	Medium
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-66: ISS_Capture_OV10640_2PASS_WDR_Color_Fidelity

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

verify that Captare/display	To running on it or or at colpo		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good. No color cast should be visible on lightbox walls and gray row of colorchecker. Colored patches should have the right hue.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		

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

Test Case VISIONSDK-67: ISS_Capture_OV10640_2PASS_WDR_Noise_Filter

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	<u>Statue.</u>
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Adjust lens to right focal length. Ensure dark lighting.	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LV LDC+VTNF + Display ADASVISION-1429: Capture + Display ger ADASVISION-1436: Basic Capture + ISP p ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	processing + display use case	M2M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-68: ISS_Capture_OV10640_2PASS_WDR_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

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

719	testreport i SDIV	_ lest_r lait_5_0_r diretional_rbA3xx	
			Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LV LDC+VTNF + Display ADASVISION-1429: Capture + Display ger ADASVISION-1436: Basic Capture + ISP pADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	processing + display use case	М2М
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-69: ISS_Capture_OV10640_2PASS_WDR_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

verify that Capture/display is running on 1PO 1-0 at 30lps			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture YUV images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts YUV frame must match the display.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case		

	ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-70: ISS_Capture_OV10640_2PASS_WDR_Read_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Use the command iss_read_sensor_reg to read chip ID (0x3000) and exposure register (0x3082)	Chip ID and exposure value must be read correctly	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVI LDC+VTNF + Display ADASVISION-1429: Capture + Display gen ADASVISION-1436: Basic Capture + ISP p ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR	rocessing + display use case	И2M
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-71: ISS_Capture_OV10640_2PASS_WDR_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

. ,			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the exposure register (0x3082)	Change of exposure value must be clearly visible on the display	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using ADASVISION-1436: Basic Capture + ISP processing + displaDASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes	ng OV10640	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-72: ISS_Capture_OV10640_2PASS_WDR_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting	Selected ISS settings will be saved	

	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
	Open Command Prompt on Host machine	
4	Get the sensor.bin file from driver	There should not be any error/assertion in saving dcc file
	and save it using iss_save_dcc_file network command	
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640 ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes	
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-73: ISS_Capture_OV10640_2PASS_WDR_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

verify that Capture/display	is fullling of 1FO 1-0 at 301ps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine and send new sensor.bin file using iss_send_dcc_file network command	New DCC profile must be used from the QSPI memory There should be a print on console indicating that	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1429: Capture + Display generic usecase using OV10640		

	ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-74: ISS_Capture_OV10640_2PASS_WDR_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor
Output : HDMI 1080P
Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10640 & Display Output as HDMI 1080P	Capture Source shuld be OV10640 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Para LDC+VTNF + Display ADASVISION-1429: Capture + Display generic use ADASVISION-1436: Basic Capture + ISP processir ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes	case using OV10640	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-47: ISS_Capture_OV10640_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV10640

Input : OV10640 sensor Output : HDMI 1080P

Preconditions:

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

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

1.4.3.3.Test Suite: ISS_SingleCam_Capture_Display_IMX224

Test Case VISIONSDK-77: ISS_Capture_IMX224_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	

Execution type:	Automated
Estimated exec. duration (sec):	60.00
Priority:	Medium
<u>Requirements</u>	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1577: iMX224 sensor support on TDA3x ADASVISION-1604: Support sensor frame work
Keywords:	tda3xx-evm c_qualification
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-78: ISS_Capture_IMX224_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P		
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1577: iMX224 sensor	support on TDA3x		
Keywords:	tda3xx-evm c_regression c_performance m_iss	tda3xx-evm c_regression c_performance		
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed	Passed		
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-79: ISS_Capture_IMX224_LM_Dyanmic_Range

Summary:

Linear mode - dynamic range test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. AE should adjust such that lowlights are visible and highlights are overexposed.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 se	ensor support on TDA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-80: ISS_Capture_IMX224_2PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

Verify that Capture/display	is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on TI	DA3x	
<u>Keywords:</u>	tda3xx-evm c_stress c_stability		

Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec)	

Test Case VISIONSDK-81: ISS_Capture_IMX224_2PASS_WDR_Performance

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed	
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on TI	DA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-82: ISS_Capture_IMX224_2PASS_WDR_Dynamic_Range

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be IMX224	
	Select Capture Source as IMX224	& Display device as HDMI 1080P	

	_	
	& Display Output as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct in dark as well as bright regions. Dark regions maybe noisier than bright regions but NSF effect should be visible.
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1577: iMX224 sensor support	on TDA3x
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-83: ISS_Capture_IMX224_2PASS_WDR_AE

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Moving to dark scene should cause AE adjustment and increase in noise level.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support	on TDA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		

Test Case VISIONSDK-84: ISS_Capture_IMX224_2PASS_WDR_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

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<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Preview maybe noisy. Toggling between VTNF (0/1) should have visible impact on temporal noise.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support	on TDA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-85: ISS_Capture_IMX224_2PASS_WDR_LDC

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting	Selected ISS settings will be saved	

010	tootroport obit-	or in the control of
	Select LDC = ON, VTNF = OFF, WDR = 2 PA	SS
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed Preview must look undistorted
Execution type:	Automated	
Estimated exec. duration (sec):	60.00	
Priority:	Medium	
Requirements	ADASVISION-1577: iMX224 sensor support of	n TDA3x
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-86: ISS_Capture_IMX224_2PASS_WDR_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = ON, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed LDC effect should be visible. If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 senso	or support on TDA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-87: ISS_Capture_IMX224_2PASS_WDR_Color_Fidelity

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

Verify that Capture/display is running on IPU1-0 at 30fps					
<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P			
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved			
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good. No color cast should be visible on lightbox walls and gray row of colorchecker. Colored patches should have the right hue.			
Execution type:	Manual				
Estimated exec. duration (sec): Priority:	Medium				
Requirements	ADASVISION-1577: iMX224 sensor support on TDA3x				
Keywords:	tda3xx-eym				
Execution Details	TAMOON OTHER				
Build	REL 3 6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	Manual				
Execution duration (sec):					

Test Case VISIONSDK-88: ISS_Capture_IMX224_2PASS_WDR_Noise_Filter

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting	Selected ISS settings will be saved	

·	
Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	
Run 1CH ISS capture + ISS + Display UC Adjust lens to right focal length. Ensure dark lighting.	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Sharpness should be good.
Manual	
Medium	
ADASVISION-1577: iMX224 sensor support on T	DA3x
tda3xx-evm	
REL_3_6	
x0246581	
Passed	
Manual	
	WDR Line Interleaved Run 1CH ISS capture + ISS + Display UC Adjust lens to right focal length. Ensure dark lighting. Manual Medium ADASVISION-1577: iMX224 sensor support on T tda3xx-evm REL_3_6 x0246581 Passed

Test Case VISIONSDK-89: ISS_Capture_IMX224_2PASS_WDR_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on T	DA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-90: ISS_Capture_IMX224_2PASS_WDR_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

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<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture YUV images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts YUV frame must match the display.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on T	DA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-91: ISS_Capture_IMX224_2PASS_WDR_Read_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	

4	Open Command Prompt on Host machine	Chip ID and exposure value must be read correctly
	Use the command iss_read_sensor_reg to read	,
	chip ID (0x3000)	
	and exposure register (0x3082)	
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1577: iMX224 sensor support on T	DA3x
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-92: ISS_Capture_IMX224_2PASS_WDR_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the exposure register (0x3082)	Change of exposure value must be clearly visible on the display	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on TDA3x		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-93: ISS_Capture_IMX224_2PASS_WDR_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

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

verify that Captare/aloplay	is raining on in or o accoupt		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Get the sensor.bin file from driver and save it using iss_save_dcc_file network command	There should not be any error/assertion in saving dcc file	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on TI	DA3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-94: ISS_Capture_IMX224_2PASS_WDR_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting	Selected ISS settings will be saved	

	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.
4	Open Command Prompt on Host machine and send new sensor.bin file using iss_send_dcc_file network command	New DCC profile must be used from the QSPI memory There should be a print on console indicating that
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1577: iMX224 sensor support on T	DA3x
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-95: ISS_Capture_IMX224_2PASS_WDR_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with IMX224

Input : IMX224 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as IMX224 & Display Output as HDMI 1080P	Capture Source shuld be IMX224 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR Line Interleaved	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command	There should not be any error/assertion in cleaning dcc profile in qspi	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1577: iMX224 sensor support on TD	A3x	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		

1.4.3.4.Test Suite: ISS_SingleCam_Capture_Display_OV2775

Test Case VISIONSDK-248: ISS_Capture_OV2775_LM Summary: Linear mode - basic ISS functionality test ISS Single channle Capture UC with OV2775 Input: OV2775 sensor Output: HDMI 1080P Preconditions: Verify that Capture/Display is running on IPU1-0 at 30fps **Execution** <u>#:</u> Step actions: **Expected Results:** Status: Go to System Settings Capture Source shuld be OV2775 Select Capture Source as OV2775 & Display device as HDMI 1080P & Display Output as HDMI 1080P Display must come up and no buffer drops should be observed Run "1CH ISS capture + ISS ISP + ISS 2 Exposure and colors should look correct. LDC+VTNF + Display" UC Most important - white/grey objects should not have any color cast

Execution type:	Automated
Estimated exec. duration (sec):	60.00
Priority:	Medium
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1604: Support sensor frame work
Keywords:	tda3xx-evm tda2px-evm c_stress c_qualification c_stability
Execution Details	
Build	REL_3_6
Tester	x0246581

Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-291: ISS	_Capture	_OV2775_	_LM_performanc	е

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV2775

Input : OV2775 sensor Output : HDMI 1080P

Preconditions:

voing that Suptaion Biopia	only that captairs/Bioplay is raining on it of a at colps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be OV2775	
	Select Capture Source as OV2775	& Display device as HDMI 1080P	

	_		
	& Display Output as HDMI 1080P		
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1604: Support sensor frame work		
Keywords:	tda3xx-evm tda2px-evm c_regression c_performance c_qualification m_iss		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-315: ISS_Capture_OV2775_LM_LDC_VTNF

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with OV2775

Input : OV2775 sensor Output : HDMI 1080P

Preconditions:

verily that Capture/Display	y is running on iPO i-0 at solps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV2775 & Display Output as HDMI 1080P	Capture Source shuld be OV2775 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = ON, WDR = OFF	Selected ISS settings will be saved	
3	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/ LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP proc ADASVISION-1604: Support sensor frame wo		M
Keywords:	tda3xx-evm tda2px-evm c_stress		

	c_qualification c_stability
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.4.3.5.Test Suite: ISS_SingleCam_Capture_Display_AR0143

Test Case VISIONSDK-254: ISS_Capture_AR0143_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR0143

Input : AR0143 sensor Output : HDMI 1080P

Preconditions:

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

	,		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR0143 & Display Output as HDMI 1080P	Capture Source shuld be AR0143 & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
Execution type:	Manual		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1604: Support sensor frame work ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px		
<u>Keywords:</u>			
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Mode: Manual		
Execution duration (sec):			

Test Case VISIONSDK-292: ISS_Capture_AR0143_LM_Performance

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR0143

Input: AR0143 sensor

Output : HDMI 1080P			
Preconditions:			
Verify that Capture/Display	y is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR0143 & Display Output as HDMI 1080P	Capture Source shuld be AR0143 & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
Execution type:	Manual		
Estimated exec. duration (sec):	on 60.00		
Priority:	Medium		
Requirements	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP pro ADASVISION-1604: Support sensor frame wo ADASVISION-1701: AR143 (MARs) Camera	/Paralle capture + ISS ISP M2M WDR + ISS M2l cessing + display use case ork	VI
tda3xx-evm c_regression c_performance c_qualification m iss			
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-334: ISS_Capture_AR143_1PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR143

Input : AR143 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR143 & Display Output as HDMI 1080P	Capture Source shuld be AR143 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
Execution type:	Automated		

Estimated exec. duration (sec):	60.00
Priority:	Medium
<u>Requirements</u>	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1604: Support sensor frame work
Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-335: ISS_Capture_AR143_2PASS_WDR

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR143

Input : AR143 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR143 & Display Output as HDMI 1080P	Capture Source shuld be AR143 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes		
Keywords:	tda3xx-evm c_stress c_stability		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Failed		
Execution Mode:	Manual		
Execution duration (sec):			
Execution notes	ADASVISION-1848: [TDA3x/TDA2Px] Kno	wn Image Quality issue with 2A & AFWB	

Test Case VISIONSDK-336: ISS_Capture_AR143_2PASS_WDR_Performance

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR143

Input : AR143 sensor Output : HDMI 1080P

Preconditions:

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

verify triat Capture/display	/ is ruilling of iF o i-o at solps			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as AR143 & Display Output as HDMI 1080P	Capture Source shuld be AR143 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed		
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium	Medium		
Requirements ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1604: Support sensor frame work				
Keywords:	tda3xx-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-337: ISS_Capture_AR143_2PASS_WDR_Dynamic_Range

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR143

Input : AR143 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR143 & Display Output as HDMI 1080P	Capture Source shuld be AR143 & Display device as HDMI 1080P	
2	Go to ISS setting	Selected ISS settings will be saved	

	Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct in dark as well as bright regions. Dark regions maybe noisier than bright regions but NSF effect should be visible.
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes	
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Failed	
Execution Mode:	Manual	
Execution duration (sec):		
Execution notes	ADASVISION-1848: [TDA3x/TDA2Px]	Known Image Quality issue with 2A & AEWB

Test Case VISIONSDK-338: ISS_Capture_AR143_2PASS_WDR_AE

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR143

Input : AR143 sensor Output : HDMI 1080P

Preconditions:

verify that Capture/display	is fulfilling off IPO 1-0 at 30lps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR143 & Display Output as HDMI 1080P	Capture Source shuld be AR143 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 2 PASS WDR	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed All the details in the scene should be visible. Noise levels should be very low. Moving to dark scene should cause AE adjustment and increase in noise level.	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1456: ISS capture - mode ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-white balance using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input		

Keywords:	tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-	339: ISS_Capture_AR143_2PASS_WDF	R_VTNF		
Summary:		_		
WDR mode - basic ISS f	unctionality test			
ISS Single channle Capt	•			
Input : AR143 sensor				
Output : HDMI 1080P				
Preconditions:				
Verify that Capture/displa	ay is running on IPU1-0 at 30fps			
<u>#:</u>	Step actions:	Expected Results:	Execution	
<u>π.</u>		Expedied Nesults.	Status:	
	Go to System Settings	Capture Source shuld be AR143		
1	Select Capture Source as AR143	Capture Source stidio be AIX 145		
	8 Display Output as HDMI 1090D	& Display device as HDMI 1080P		
	& Display Output as HDMI 1080P Go to ISS setting			
2	GO to 133 setting	Salastad ISS acttings will be asked		
2	Select LDC = OFF, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved		
	= 2 PASS WDR	Diapley must some up and no buffer drope should be		
		Display must come up and no buffer drops should be observed		
3	Run 1CH ISS capture + ISS + Display	All the details in the scene should be visible. Preview		
	UC	maybe noisy. Toggling between VTNF (0/1) should have visible		
		impact on temporal noise.		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1257: AR0143 Sensor Support ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - output dataformat ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M -ISP - resizer ADASVISION-1479: ISS M2M - H3A ADASVISION-1479: ISS M2M (LDC + VTNF) - VTNF data format ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1480: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input			
Keywords:	tda3xx-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			

Test Case VISIONSDK-340: ISS_Capture_AR143_2PASS_WDR_LDC Summary: WDR mode - basic ISS functionality test ISS Single channle Capture UC with AR143 Input: AR143 sensor Output: HDMI 1080P Preconditions: Verify that Capture/display is running on IPU1-0 at 30fps Execution <u>#:</u> Step actions: **Expected Results:** Status: Go to System Settings Capture Source shuld be AR143 Select Capture Source as AR143 & Display device as HDMI 1080P & Display Output as HDMI 1080P Go to ISS setting 2 Selected ISS settings will be saved Select LDC = ON, VTNF = OFF, WDR = 2 PASS WDR Display must come up and no buffer drops 3 Run 1CH ISS capture + ISS + Display UC should be observed Preview must look undistorted **Execution type:** Automated Estimated exec. duration 60.00 (sec): Priority: Medium ADASVISION-1257: AR0143 Sensor Support Requirements ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1469: ISS M2M -ISP - output dataformat ADASVISION-1470: ISS M2M -ISP - input data format ADASVISION-1472: ISS M2M -ISP - WDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M - H3A ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC selection ADASVISION-1478: ISS M2M (LDC + VTNF) - LDC data format ADASVISION-1480: ISS M2M (LDC + VTNF) - LDC create time config ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1490: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-white balance using H3A data as input ADASVISION-1492: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as input Keywords: tda3xx-evm **Execution Details** Build REL_3_6 Tester x0246581 **Execution Result:** Passed

Test Case VISIONSDK-341: ISS_Capture_AR143_2PASS_WDR_LDC_VTNF

Manual

Summary:

Execution Mode:

Execution duration (sec):

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR143

Input : AR143 sensor Output : HDMI 1080P

Preconditions:

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

Verify that Capture/display	is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings		
1	Select Capture Source as AR143	Capture Source shuld be AR143	
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P	
	Go to ISS setting		
2	Select LDC = ON, VTNF = ON, WDR = 2 PASS WDR	Selected ISS settings will be saved	
2	Run 1CH ISS capture + ISS	Display must come up and no buffer drops should be observed LDC effect should be visible.	
3	+ Display UC	If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00	60.00	
Priority:	Medium		
	ADASVISION-1456: ISS capture - mode ADASVISION-1457: ISS capture - interface ADASVISION-1459: ISS capture - resolution ADASVISION-1467: ISS M2M -ISP - GLBCE selection ADASVISION-1468: ISS M2M -ISP - resizer ADASVISION-1468: ISS M2M -ISP - output dataformat ADASVISION-1469: ISS M2M -ISP - input data format ADASVISION-1470: ISS M2M -ISP - wDR modes ADASVISION-1472: ISS M2M -ISP - wDR modes ADASVISION-1473: ISS M2M -ISP - resizer ADASVISION-1475: ISS M2M - H3A ADASVISION-1475: ISS M2M (LDC + VTNF) - LDC selection ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC data format ADASVISION-1479: ISS M2M (LDC + VTNF) - VTNF data format ADASVISION-1480: ISS M2M (LDC + VTNF) - VTNF create time config ADASVISION-1480: ISS M2M (LDC + VTNF) - VTNF create time config ADASVISION-1481: ISS M2M (LDC + VTNF) - yTNF create time config ADASVISION-1482: ISS M2M (LDC + VTNF) - general ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1485: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1489: Algorithm Link ISS 2A - Auto-exposure using H3A data as input ADASVISION-1491: Algorithm Link ISS 2A - Auto-exposure for WDR mode operation using H3A data as		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.3.6.Test Suite: ISS_SingleCam_Capture_Display_AR132

Test Case VISIONSDK-263: ISS_Capture_AR132_LM

Summary:

Linear mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

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

verily that Capture/Display	is running on IPO1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P	
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1327: Support AR0132 HiSPI Raw/Bayer sensors ADASVISION-1328: Support AR0132 sensor with Parallel RAW 12-bit companded input format ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1435: Basic AR0132 capture + display use case ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1461: ISS capture - packing ADASVISION-1464: ISS capture -non OTF mode - output dataformat ADASVISION-1590: TDA3x - AR0132 sensor support		
<u>Keywords:</u>	tda3xx-evm c_stress c_qualification c stability		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-264: ISS_Capture_AR132_LM_Performance

Summary:

Linear mode - basic ISS, performance test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P	
2	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed.	
3	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	

Execution type:	Automated
Estimated exec. duration (sec):	60.00
Priority:	Medium
Requirements	ADASVISION-1327: Support AR0132 HiSPI Raw/Bayer sensors ADASVISION-1328: Support AR0132 sensor with Parallel RAW 12-bit companded input format ADASVISION-1590: TDA3x - AR0132 sensor support
Keywords:	tda3xx-evm c_regression c_performance m_iss
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-265: ISS_Capture_AR132_LM_LDC_VTNF

Summary:

WDR mode - basic ISS functionality test ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = ON, VTNF = ON, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed LDC effect should be visible. If LDC has not been tuned for the lens used, it is OK if correction is not perfect but there should be no crash or corruption.		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1590: TDA3x - AR0132 sensor support ADASVISION-1591: TDA3x - AR0132 sensor Shall support capture from AR0132 Monochrome / Bayer sensor in RAW12 format ADASVISION-1593: TDA3x - AR0132 sensor M2M SIMCOP shall support single channel lens distortion correction and noise			
Keywords:	tda3xx-evm	tda3xx-evm		
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual	Manual		
Execution duration (sec):				

Test Case VISIONSDK-266: ISS_Capture_AR132_LM_DUMP_RAW_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC Capture RAW images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts	
Execution type:	Manual		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1590: TDA3x - AR0132 sensor support ADASVISION-1593: TDA3x - AR0132 sensor M2M SIMCOP shall support single channel lens distortion correction and noise		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-267: ISS_Capture_AR132_LM_DUMP_YUV_FRAMES

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

romy and oupland, and play	Total y and coupling to tarming on the category			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = ON, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		

3	Run 1CH ISS capture + ISS + Display UC Capture YUV images using n/w tool	Display must come up and no buffer drops should be observed Captured images must be free of artifacts YUV frame must match the display.
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1590: TDA3x - AR0132 sensor support ADASVISION-1593: TDA3x - AR0132 sensor M2M SIMCOP shall support single channel lens distortion correction and noise	
Keywords:	tda3xx-evm	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-268: ISS_Capture_AR132_LM_Read_Sensor_Reg						
Summary:						
WDR mode - basic ISS functionality test						
ISS Single channle Captu	SS Single channle Capture UC with AR132					
Input : AR132 sensor						
'						
Output : HDMI 1080P Preconditions:						
Verify that Capture/display	y is running on IPU1-0 at 30fps		- "			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:			
1	Go to System Settings Select Capture Source as AR132	Capture Source shuld be AR132 & Display device as HDMI 1080P				
	& Display Output as HDMI 1080P	a. 2.0p.u., u.c.1.00 u.c.1.2.1				
	Go to ISS setting					
2	Select LDC = OFF, VTNF = OFF, WDR = OFF					
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.				
4	Open Command Prompt on Host machine Use the command iss_read_sensor_reg to read chip ID (0x3000) and exposure register (0x3082)	Chip ID and exposure value must be read correctly				
Execution type:	Manual					
Estimated exec. duration (sec):						
Priority:	Medium					
Requirements	ADASVISION-1590: TDA3x - AR0132 s	sensor support				
Keywords:	tda3xx-evm					
Execution Details	n Details					
Build	REL_3_6					
Tester	x0246581					
Execution Result:	ecution Result: Passed					
Execution Mode: Manual						

Execution duration (sec):

Test Case VISIONSDK-269: ISS_Capture_AR132_LM_Write_Sensor_Reg

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

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

			Execution
<u>#:</u>	Step actions:	Expected Results:	Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P	
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
4	Open Command Prompt on Host machine Use the command iss_write_sensor_reg to write 0, 4, 8 and c one by one to the exposure register (0x3082)	Change of exposure value must be clearly visible on the display	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1590: TDA3x - AR0132 sensor support		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-270: ISS_Capture_AR132_LM_Save_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P	

2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine Get the sensor.bin file from driver and save it using iss_save_dcc_file network command	There should not be any error/assertion in saving dcc file		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Requirements	ADASVISION-1590: TDA3x - AR0132 sens	sor support		
Keywords:	tda3xx-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-271: ISS_Capture_AR132_LM_Send_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P		
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved		
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.		
4	Open Command Prompt on Host machine and send new sensor.bin file using iss_send_dcc_file network command	New DCC profile must be used from the QSPI memory There should be a print on console indicating that		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Requirements	ADASVISION-1590: TDA3x - AR0132 sensor sup	pport		
Keywords:	tda3xx-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			

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

Test Case VISIONSDK-272: ISS_Capture_AR132_LM_Clear_DCC_Profile

Summary:

WDR mode - basic ISS functionality test

ISS Single channle Capture UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR132 & Display Output as HDMI 1080P	Capture Source shuld be AR132 & Display device as HDMI 1080P	Status.
2	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = OFF	Selected ISS settings will be saved	
3	Run 1CH ISS capture + ISS + Display UC	Display must come up and no buffer drops should be observed. Exposure and colors should look correct.	
Open Command Prompt on Host machine and clear DCC profile from QSPI using iss_clear_dcc_qspi_mem network command		There should not be any error/assertion in cleaning dcc profile in qspi	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1590: TDA3x - AR0132 sensor supp	port	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-286: ISS_Capture_AR132_LM_Monochrome

Summary:

Linear mode - basic ISS functionality test

ISS Single channel Capture + ISS ISP Monochrome Display UC with AR132

Input : AR132 sensor Output : HDMI 1080P

Preconditions:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings	Capture Source shuld be AR132	
	Select Capture Source as AR132	& Display device as HDMI 1080P	

	& Display Output as HDMI 1080P			
2	Run "1CH ISS capture (AR0132) + ISS ISP Monochrome + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast		
Execution type:	Manual			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1395: 1CH 720p30 CSI2/LVDS/Paralle capture + ISS ISP M2M WDR + ISS M2M LDC+VTNF + Display ADASVISION-1435: Basic AR0132 capture + display use case ADASVISION-1436: Basic Capture + ISP processing + display use case ADASVISION-1590: TDA3x - AR0132 sensor support ADASVISION-1592: TDA3x - AR0132 sensor Shall support processing of RAW12 monochrome data in ISP LINK			
Keywords:	tda3xx-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.4.3.7.Test Suite: ISS_Capture_Display_IPU_SMP_BIOS

Test Case VISIONSDK-358: ISS_Capture_Display_Input_OV10640_Output_HDMI_1080P

Summary:	<u>immary:</u>			
Capture Display UC with II	pture Display UC with IPU SMP BIOS			
supported on TDA3x/RVP	ported on TDA3x/RVP			
Input : OV10640				
'				
Output : HDMI 1080P				
Preconditions:				
Verify that Capture is runn	ing on IPU1-0 at 30fps and displa	y running on IPU1-0 at 60fps		
Binaries should be built wi	th IPU_SMP_BIOS=yes			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
	Go to System Settings			
	Select Capture Source as	Capture Source shuld be OV10640		
1	OV10640	· ·		
	& Display Output as HDMI 1080P	& Display device as HDMI 1080P		
2	Run ISS 1 Ch 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-1835: Enable SMP support for IPU1_0 and IPU1_1			
Keywords:	None			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result: Passed				

Manual

Execution Mode:

Test Case VISIONSDK-307: ISS_dump_frames_various_tap_points

Summary:

ISS Single channle Capture UC with AR140/OV10640/IMX224

Input: AR140/OV10640/IMX224 sensor

Output: HDMI 1080P

Preconditions:

Binaries should built with NDK enabled

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Go to System Settings Select Capture Source as AR140/OV10640/IMX224 & Display Output as HDMI 1080P	Capture Source shuld be AR140/OV10640/IMX224 & Display device as HDMI 1080P			
2	Run "1CH ISS capture + ISS ISP + ISS LDC+VTNF + Display" UC	Display must come up and no buffer drops should be observed Exposure and colors should look correct. Most important - white/grey objects should not have any color cast			
Run DCC tool for ISS image tuning Connect to target EVM (using IP) & dur frames from various tap-points		should be able to dump frames from various tap-points			
Execution type:	Manual				
Estimated exec. duration (sec):	60.00				
Priority:	Medium				
<u>Requirements</u>	LDC+VTNF + Display ADASVISION-1436: Basic Capture + ISP proc ADASVISION-1511: ISS tuning tool ADASVISION-1587: TDA3x ISS UC - SDK link ADASVISION-1600: ISS - add various tap-poil ADASVISION-1604: Support sensor frame wo	s and Utils to support static memory allocation onts for dumping the frames			
Keywords:	None				
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	Manual				
Execution duration (sec):					

Test Case	VISIONSDK-357: IS	S Capture	OV10640	Output	ARGB32

Summary:

ISS Capture display UC

supported on TDA3x

Input: OV10640 Sensor

Output: ARGB32 over resizer window

Preconditions:

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

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

			Status:
1	Enable use-case in test suite& build Load Testsuite binaries on TDA3xx EVM & Run	Check Logs of iss_isp_display use-case Capture should be running on IPU1-0 at 30fps and display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1927: ARGB32 output support for Iss_memResizer Link		
Keywords:	None		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.4.Test Suite: TIDL

1.4.4.1.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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Select TIDL File IO UC from Main Menu		
1	2. Select DSP	Frame will be dumped to SD card as OUT.BIN	
	3. Select Dump Output frmaes to file	001.5.11	
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_6		
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:

- 1. Use case config file (TIDLCFG.TXT)
- 2. IN.RGB

3. PRM.BIN

4. NET.BIN

<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Select TIDL File IO UC from Main Menu Select DSP 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:	da2xx-evm da3xx-evm				
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	Manual				
Execution duration (sec):					

Test Case VISIONSDK-160: TIDL_File_IO_UC_DSP_Free_Run

Summary:

TIDL File IO UC on DSP:

Free Run

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Select TIDL File IO UC from Main Menu Select DSP Select Free run	No Display & also No Frame will be dumped to SD card			
Execution type:	Automated	Automated			
Estimated exec. duration (sec):	60.00				
Priority:	Medium				
Requirements	ADASVISION-1163: Deep learning demo ADASVISION-1201: Validate TIDL use case on TDA3x				
<u>Keywords:</u>	tda2xx-evm tda3xx-evm				
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				

Execution Mode:	Manual
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>	Step actions:	Expected Results:	Execution Status:
1	Select TIDL File IO UC from Main Menu Select EVE Select Dump Output frmaes to file	Frame will be dumped to SD card as OUT.BIN	
2	Press "P" to check performance numbers	On EVE should be <=450sec	
Execution type:	Automated		
Estimated exec. duration (sec):	50.00		
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_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-162: TIDL_File_IO_UC_EVE_Dump_Frames_File

Summary:

TIDL File IO UC on EVE:

Dump frames to file

Preconditions:

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

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

-013	testreport i obit	V_TCSt_Flail_5_6_FullClional_TDA5XX	
	3. Select Dump Output frmaes to file		
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 ca	se on TDA3x	
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-163: TIDL_File_IO_UC_EVE_Free_Run

Summary:

TIDL File IO UC on EVE:

Free Run

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution
1	Select TIDL File IO UC from Main Menu Select EVE Select Free run	No Display & also No Frame will be dumped to SD card	Status:
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_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.5.Test Suite: MISC

1.4.5.1.Test Suite : SyncLink

Test Case VISIONSDK-187: VIP_Capture_Sync_Null				
Summary:	Summary:			
Single Cam Capture Sync	: Null UC			
supported on TDA2x/TDA	2Ex/TDA3x			
Input : OV10635 Sensor				
Output : Null				
Preconditions:				
Verify that Capture is runn	ning on IPU1-0 at 3	30fps and display running on IPU1-0 at 60fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
		Check Logs of Capture Sync Null UC		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and		
		display should be running on IPU1-0 at 60fps		
Execution type:	Manual	display should be full lilling of it of the at onlys		
Estimated exec. duration		manau		
<u>(sec):</u>				
Priority:	Medium			
Requirements	ADASVISION-15	18: Synchronization of frames across multiple channels		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_link	ks		
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.4.5.2.Test Suite : DupLink

Test Case VISIONSDK-1	65: VIP_Capture_	_Dup_Display	
Summary:			
Single Cam Capture Dup	Display UC		
supported on TDA2x/TDA	A2Ex/TDA3x		
Input : OV10635 Sensor			
Output : HDMI 1080P			
Preconditions:			
Verify that Capture is runr	ning on IPU1-0 at 3	30fps and display running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
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
Execution type:	Manual
Estimated exec. duration (sec):	
Priority:	Medium
Requirements	ADASVISION-1519: duplication of output
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_links
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.4.5.3.Test Suite : MergeLink

Test Case VISIONSDK-10	66: VIP_Capture_	_Merge_Display			
Summary:	Summary:				
Single Cam Capture Merge Display UC					
supported on TDA2x/TDA	2Ex/TDA3x				
Input : OV10635 Sensor					
Output : HDMI 1080P					
Preconditions:					
Verify that Capture is runn	ing on IPU1-0 at 3	30fps and display running on IPU1-0 at 60fps			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
		Check Logs of Capture Merge Display UC			
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and			
		display should be running on IPU1-0 at 60fps			
Execution type:	Manual				
Estimated exec. duration (sec):					
Priority:	Medium				
Requirements	ADASVISION-15	20: Merging of multiple outputs			
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_connector_lin	ks			
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	Manual				
Execution duration (sec):					

1.4.5.4.Test Suite: StatisticsLogs

Test Case VISIONSDK-211: VIP_SingleCam_Capture_Display_Statistics_Logs	
Summary:	

Capture Display UC

Input : OV10635

Output : HDMI 1080P

Preconditions:

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

verny mai Capiule is fulli		y running on if o i-o at ooips	T=
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1 2	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P Run 1 Ch VIP capture + Display UC Press "P"	Capture Source shuld be OV10635 & Display device as HDMI 1080P Display must come up and no buffer drops should be observe It should print all performance statistics 1. Load on all cores 2. DDR BW usage	Status:
		FPS for each Link Latency to process frames	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1536: System deb ADASVISION-1537: Statistics log ADASVISION-1538: latency mea ADASVISION-1539: system load ADASVISION-1540: DDR BW mea ADASVISION-1541: Global times ADASVISION-1563: Vision SDK	gs surement ing easurement stamp	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-2	Test Case VISIONSDK-212: Print_PRCM_Statistics_Dpll_Status				
Summary:					
Print PRCM Statistics Dpl	Status				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Go to System Settings -> Print PRCM Statistics Press "1" for Dpll Status	On selecting "1" should print DPLL Statistics			
Execution type:	Automated				
Estimated exec. duration (sec):	60.00				
Priority:	Medium				
Requirements ADASVISION-1561: power mamagemant Software Enhancements and Advanced Features for					

	TDA2x/TDA3x/TDA2Ex ADASVISION-1562: power mamagemant - Profilling Support for Actual CPU idle time ADASVISION-1563: Vision SDK Print Statistics for PM
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-2	Test Case VISIONSDK-213: Print_PRCM_Statistics_Temperature				
Summary:					
Print PRCM Statistics Temperature					
<u>#:</u>	Step actions:	Step actions: Expected Results: Expected Results: Execution Status:			
1	Go to System Settings -> Print PRCM Statistics Press "2" for Temperature	On selecting "2" should print current min & max temperature on all cores			
Execution type:	Automated				
Estimated exec. duration (sec):	60.00	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-1566: PM - VSDKPRINTSTATS: Print the Temperature				
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp				
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	Manual				
Execution duration (sec):					

Test Case VISIONSDK-214: Print_PRCM_Statistics_Voltage				
Summary:				
Print PRCM Statistics Volt	tage			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings -> Print PRCM Statistics Press "3" for Voltage	On selecting "3" should print voltage usage		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			

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

Test Case VISIONSDK-2	15: Print_PRCM_Statistics_Module_Powe	er_State		
Summary:				
Print PRCM Statistics Module Power State				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings -> Print PRCM Statistics Press "4" for Module Power State	On selecting "4" should print Module Power State Module Name & Module state Module SIDLE State Clock Activite State Power Domain State		
Execution type:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	Medium			
Requirements	ADASVISION-1561: power mamagemant S TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Stati ADASVISION-1565: PM - VSDKPRINTSTA		es for	
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-216: Print_PRCM_Statistics_CPU_Frequency				
Summary:				
Print PRCM Statistics CPU Frequency				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings -> Print PRCM	On selecting "5" should print Frequency of all		

		-1001_11411_0_0_1141101101141_13710751	
	Statistics	cores	
	Press "5" for CPU Frequency		
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1561: power mamagemant S TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statis ADASVISION-1564: PM - VSDKPRINTSTA		s for
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-217: Print_PRCM_Statistics_Peripherals_Frequency				
Summary:				
Print PRCM Statistics Peripherals Frequency				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Go to System Settings -> Print PRCM Statistics Press "6" for Peripherals Frequency	On selecting "6" should print Peripherals Frequency of QSPI & DSS		
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-1564: PM - VSDKPRINTSTATS: Print Module Frequencies			
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-218: Print_PRCM_Statistics_Prcm_Register_Data				
<u>Summary:</u>				
Print PRCM Statistics Prcm Register Data				
<u>#:</u>	Step actions:	Expected Results:	Execution	

	'		
			Status:
1	Go to System Settings -> Print PRCM Statistics Press "7" for Prcm Register Data	On selecting "6" should print Prcm Register Data of all POWER DOMAIN Reg. Address & Value	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power mamagemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-219: Print_PRCM_Statistics_Power_Consumption Summary: Print PRCM Statistics Power Consumption Supported only on TDA2x Execution Status: Step actions: <u>#:</u> **Expected Results:** Go to System Settings -> Print PRCM Statistics On selecting "8" should print Power Consumption Press "8" for Power Consumption Execution type: Automated Estimated exec. duration 60.00 (sec): 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_6 Tester x0246581 **Execution Result: Passed Execution Mode:** Manual Execution duration (sec):

Test Case VISIONSDK-220: Print_PRCM_Statistics_All_PRCM_Stats
Current and the

Summary:

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
		On selecting "9" should print All PRCM Stats	
		Dpll Status	
		Temperature	
	Go to System Settings -> Print PRCM Statistics	Voltage	
1	Press "9" for All PRCM Stats	Module Power State	
	FIESS 9 IOI AII FROM Stats	CPU frequency	
		Peripherals Frequency	
		Prcm register Data	
		Power Consumption	
Execution type:	Automated	rower consumption	
Estimated exec. duration (sec):	60.00		
Priority:	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 mamagemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies ADASVISION-1566: PM - VSDKPRINTSTATS: Print Module Power State ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.5.5.Test Suite: FATFS

Test Case VISIONSDK-228: File_IO_UC_MMCSD_IPU1_0				
Summary:				
File IO UC using MMCSD	on IPU1_0			
Read Applmage from SD	card &			
write back same to SD car	rd			
Preconditions:				
Verify FATFS running IPU1_0				
Build SDK with FATFS flag	gs enabled & NDK disabled an	d FATFS lib on IPU1_0		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Select File IO UC from Menu	No Display		

testreport 1 3DRV_rest_1 lan_3_0_1 unctional_1DA3XX		
On console, Time taken to read & write should be displayed		
Automated		
60.00		
Medium		
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		
tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
REL_3_6		
x0246581		
Passed		
Manual		

1.4.5.6.Test Suite : Limp_Home_Mode

Test Case VISIONSDK-277: Limp_Home_Mode

Summary:

Limp Home Mode UC

Input: HDMI

Output: HDMI 1080P

Preconditions:

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as HDMI & Display Output as HDMI 1080P	Capture Source shuld be HDMI & Display device as HDMI 1080P	
2	Run 1CH VIP capture (HDMI) + FrontCam Analytics 2 (PD+TSR+VD+LD+TLR+SFM) (DSPx, EVEx) + Display UC	Display must come up and no buffer drops should be observe	
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	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	
	6: Show Limp Home Status 7: Switch to Limp Home Mode 8: Return to Normal Usecase Mode x: Exit Thermal Menu	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)	

019	testreport PSDKV_Test_Plan_3_6_Functional_TDA3xx			
		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:	Automated			
Estimated exec. duration (sec):	60.00			
Priority:	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_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.4.5.7.Test Suite : Task_time_measure_utility

Test Case VISIONSDK-28	89: 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 runn	ing on IPU1-0 at 30fps and displa	ay running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings		
	Select Capture Source as	Capture Source shuld be OV10635	
1	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	Press "4" for Demonstrate Task Timer utility	On console should print Global time taken & actual time taken by utility for function	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1199: Utility to measure time taken for a function in multi-task environment ADASVISION-1381: 1CH VIP capture + Display		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		

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

1.4.5.8.Test Suite : TLFW_verify

Test Case VISIONSDK-30	09: TLFW_verification		
Summary:			
Verifying testlink fw			
Preconditions:			
staf should be running			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1 Execution type:	Add all vision SDk test cases to test link, Map with requirements from JIRA Create a test plan & under that create a build Add test cases to execute for that particular build Trigger all automated test cases from test link Execute remaining manual test cases from test link 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	
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-369: Deploy TestLink for VSDK test	-case management and automation	
Keywords:	None	=	
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-3	25: VSDK_restructuring_directory_structure		
Summary: restructuring directory stru	ucture for VSDk 3.0 release		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Restructure directory structure for VSDK into separate Folder as below		
	link_fw		
	Make System (Common for FW & all Apps modules)		
1	sample_app	Directory structure should be as stated	
	apps	Stated	
	algorithms		
	docs		
	testsuite		
Execution type:	Manual		
Estimated exec. duration (sec):			

Priority:	Medium
Requirements	ADASVISION-1205: VSDK 3.0 restructuring ADASVISION-929: SDK FW and App separation
Keywords:	None
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.4.6.Test Suite: ECC_FFI

Test Case VISIONSDK-121: Capture_FrameCopy_FFI_DSP1_Display

Summary:

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

Input : OV10635 sensor Output : HDMI 1080P

Preconditions:

Ensure Binaries build with ECC_FFI_INCLUDE=yes

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Run "1CH VIP capture + QM Alg Frame Copy with FFI (DSP1) + Display " UC	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-1502: FFI (DSP CPU) - XMC ADASVISION-1505: FFI (DSP EDMA & EVE) - L3FV ADASVISION-1506: EMIF ECC support ADASVISION-1510: DCC support	W	
Keywords:	None		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-122: Capture_FrameCopy_FFI_EVE1_Display

Summary:

ECC FFI UC - 1CH VIP capture + QM Alg Frame Copy with FFI (EVE1) + Display (TDA3x only)

Input : OV10635 sensor Output : HDMI 1080P

Preconditions:

Ensure Binaries build with ECC_FFI_INCLUDE=yes

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Run "1CH VIP capture + QM Alg Frame Copy with FFI (EVE1) + Display (TDA3x only)" UC	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		

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

1.4.7.Test Suite: IPC_LIB

Test Case VISIONSDK-12	23: IPC_LIB		
Summary:			
IPC LIB UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
Preconditions:			
Build binaries for all platfo	rm with IPC_LIB_INCLUDE=yes		
Verify that Capture/display	y is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-925: Safe IPC imple	ementation and integration with Vision SDK	
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm m_ipc		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-2	40: Low_Latency_IPC		
Summary:			
Low Latency IPC UC			
Input : OV10635 sensor			
Output : HDMI 1080P			
Preconditions:			
Build binaries for all platfo	orm with IPC_LIB_INCLUDE=yes &	WORKQ_INCLUDE=yes	
Verify that Capture/display	y is running on IPU1-0 at 30fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Run all UCc one by one from UC menu	Display must come up and no buffer drops should be observed Performance stats must match with Datasheet	
Execution type:	Manual		
Estimated exec. duration (sec):			

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

1.4.8.Test Suite: RTI

Test Case VISIONSDK-226: VIP_Capture_Display_suspend_IPU1_0

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

verify RTI configuration with expiry detection and recovery support

Load the binaries using CCS/SD card

			1
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Display UC	Display must come up and no buffer drops should be observe	
3	Suspend/reset the IPU core through CCS	System should re-start automatically RTI logs should displayed on console	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1509: RTI support ADASVISION-1594: RTI configuration	on with expiry detection and recovery support	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-227: VIP_Capture_FrameCopy_Display_suspend_DSP_EVE

Summary:

Capture Framecopy Display UC on DSP1/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

verify RTI configuration with expiry detection and recovery support

Load the binaries using CCS/SD card

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 & Display Output as HDMI 1080P	Capture Source shuld be OV10635 & Display device as HDMI 1080P	
2	Run 1 Ch VIP capture + Framecopy + Display UC	Display must come up and no buffer drops should be observe	
3	Suspend/reset the DSP/EVE core through CCS	CPU load bar of suspended core shown as red RTI logs should displayed on console	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1509: RTI support ADASVISION-1594: RTI configuration w	vith expiry detection and recovery support	
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.5.Test Suite : Open_Compute

1.5.1.Test Suite : OpenVX

Test Case VISIONSDK-22	23: OpenVX_Confirmation_Test			
Summary:				
OpenVX Confirmation Tes	et v1.1			
supported on both Bios/Lin	nux			
Preconditions:				
Verify that Capture is runn	ing on IPU1-0 at 30fps and display runn	ing on IPU1-0 at 60fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Boot EVM Run OpenVX Confirmation Test v1.1	Confirmation test should run automatically		
Execution type:	Manual			
Estimated exec. duration (sec):	60.00	0.00		
Priority:	Medium			
Requirements	DASVISION-1553: Algorithm Link Support In place computation support DASVISION-936: OpenVX framework - BIOS, Linux (Phase 1)			
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm			
Execution Details				
Build	REL_3_6			
Tester	x0246581			
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

Test Case VISIONSDK-2	24: OpenVX_Tutorials			
Summary:	Summary:			
OpenVX Tutorials				
supported on both Bios/Lii	nux			
Preconditions:				
Verify that Capture is runn	ning on IPU1-0 at 30fps and disp	lay running on IPU1-0 at 60fps		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Boot EVM Run OpenVX Tutorials	Tutorials should run automatically		
Execution type:	Manual			
Estimated exec. duration (sec):	60.00	0.00		
Priority:	Medium	Medium		
Requirements	ADASVISION-936: OpenVX fra	amework - BIOS, Linux (Phase 1)		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm			
Execution Details				
	atlink/index php?caller=legip			

Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-22	25: VIP_Capture_OpenVX_Display_Input_O	V10635_Output_HDMI_1080P	
Summary:			
OpenVX Capture Display	UC supported on Bios		
Input : OV10635			
Output : HDMI 1080P			
Preconditions:			
		IDII4 0. 4 00f	
verity that Capture is runn	ing on IPU1-0 at 30fps and display running on	IPU1-0 at 60tps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings	0 1 0 1 1 1 0 1 1 0 0 1	
1	Select Capture Source as OV10635 Sensor	Capture Source shuld be OV10635 Sensor	
	9 Dioplay Output on HDMI 1000D	& Display device as HDMI 1080P	
	& Display Output as HDMI 1080P Run "VIP Single Channel Capture + OpenVX	Display must come up and no huffer drops	
2	+ Display" UC	should be observe	
Execution type:	Manual		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	ADASVISION-936: OpenVX framework - BIO	S, Linux (Phase 1)	
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.6.Test Suite : Multi_Cam

1.6.1.Test Suite: Multi_Channel_LVDS_Capture_Display

Test Case VISIONSDK-22: VIP_4CH_Capture_Display_OV10635_913deser

Summary:

4 Channel Capture Display UC

Input: OV10635 with 913/914 deserializer

Output: HDMI 1080P

Preconditions:

Verify whether display shows a smooth stitching of the 4 views in Mosaic

Select Capture Source as OV10635 Select Capture Source as OV10635 & Display Output as HDMI 1080P Run "4CH VIP Capture + Mosaic Display" UC Select "0" For Single channel mode Select "1" For Multi channel mode Automated Execution type: Automated ADASVISION-1275: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi-channel capture ADASVISION-1276: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1282: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1282: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1306: Display Link - Display Multi instance support ADASVISION-1306: Display Link - Display Multi instance support ADASVISION-1306: Support for TDA2Ex, (b)-Eco jin vision SDIX ADASVISION-1308: Support 10° TDA2Ex, (b)-Eco jin vision SDIX ADASVISION-1682: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1684: Shall support LVDS multi-channel capture upto 4 channel ADASVISION-1686: Custom SVMMS link to use VPE (scalar) internally to avoid DMA copy ADASVISION-1680: Custom SVMS link to use VPE (scala	:	Go to System Settings		Status:
Select "0" For Single channel mode Select "1" For Multi channel mode Select "1" For Multi channel mode Automated Estimated exec. duration (sec): Requirements ADASVISION-1275: VIP Capture Link to support Multi channel capture ADASVISION-1276: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1282: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1282: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1282: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1282: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1342: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi instance in multi-VIP port mode ADASVISION-1324: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1324: multi sensors support ADASVISION-1324: multi sensors support ADASVISION-1580: Support IVDS capture + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + Displa ADASVISION-1584: Shall support IVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support IVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support IVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support IVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support IVDS multi-channel capture upto 4 channel ADASVISION-1584: Shall support IVDS multi-channel capture upto 4 channel ADASVISION-1686: Support IVDS multi-channel capture upto 4 channel ADASVISION-1686: Support IVDS multi-channel capture upto 4 channel ADAS		OV10635 & Display Output as HDMI		
### Sequirements 60.00 **Requirements 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 to support Multi channel capture ADASVISION-1282: VIP Capture Link to support Multi instance link support ADASVISION-1282: VIP Capture Link to support Multi-channel capture upto 4CH ADASVISION-1304: Display Link - Display Link to support Multi-channel capture upto 4CH ADASVISION-1306: Display Link - Display Multi instance support ADASVISION-1325: support LVDS capture ADASVISION-1325: support LVDS capture ADASVISION-1325: support LVDS 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-1582: Shall support all the Bios single multi camera usecases which use one DSP & MADASVISION-1668: Custom SWMS link to use VPE (scalar) internally to avoid DMA copy ADASVISION-897: Add single camera campture display using lvds for all platforms tda2ex-evm tda2ex-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display Execution Details Build REL_3_6 Fester x0246581	2	Mosaic Display" UC Select "0" For Single channel mode Select "1" For Multi channel	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	
Sec : Sec	Execution type:	Automated		
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) + Displa ADASVISION-1380: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1580: Support all the Bios single multi camera usecases which use one DSP & M ADASVISION-1584: Shall support all the Bios single multi camera usecases which use one DSP & M ADASVISION-1668: Custom SWMS link to use VPE (scalar) internally to avoid DMA copy ADASVISION-897: Add single camera campture display using lvds for all platforms Keywords: tda2xx-evm tda2xx-evm tda2xx-evm tda2ex-entry tda2px-evrm c_regression c_qualification m_capture m_display Execution Details Build REL_3_6 Tester X0246581	Estimated exec. duration	60.00		
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-1325: support LVDS capture ADASVISION-1326: Support for TDA2EX (J6-Eco) in vision SDK 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 & M ADASVISION-1688: Custom SWMS link to use VPE (scalar) internally to avoid DMA copy ADASVISION-897: Add single camera campture display using Ivds for all platforms Keywords: tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture m_display Execution Details Build REL_3_6 Tester x0246581	·	Medium		
tda2ex-evm tda3xx-evm tda2ex-entry tda2ex-evm tda3xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2		ADASVISION-1276: VIP Captu ADASVISION-1277: VIP Captu ADASVISION-1282: VIP Captu ADASVISION-1294: VIP Captu ADASVISION-1304: Display Li ADASVISION-1306: Display Li ADASVISION-1324: multi sens ADASVISION-1325: support LN ADASVISION-1387: 4CH LVD: ADASVISION-1580: Support for ADASVISION-1580: Support for ADASVISION-1582: Shall support ADASVISION-1584: Shall support ADASVISION-1584: Shall support ADASVISION-1668: Custom SADASVISION-897: Add single	ure Link to support Multi channel capture ure Link- VIP port Config per VIP instance in multi-VIP port mode ure Link to support Multi instance link support ure Link to support Multi-channel capture upto 4CH nk - Display Multi instance support nk - HDMI display support sors support VDS capture S VIP Capture + VPE + Sync + Alg DMA SW Mosaic (IPU1-0) + DOT TDA2Ex (J6-Eco) in vision SDK cort LVDS multi-channel capture upto 4 channel cort all the Bios single multi camera usecases which use one DS WMS link to use VPE (scalar) internally to avoid DMA copy	Display
Build REL_3_6 Tester x0246581		tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_regression c_qualification m_capture		
Tester x0246581		· ·		
Tester x0246581	3uild	REL_3_6		
	Tester	x0246581		
<u>=xecution Result:</u> Passed	Execution Result:	Passed		

Execution duration (sec):

Test Case VISIONSDK-132: CSI2_4CH_Capture_Display_OV10635_964deser

Summary:

4 Channel Capture Display UC

Input: OV10635 with 964 deserializer

Output: HDMI 1080P

Preconditions:

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

All fulfilling at 501ps. Also	cneck performance stats match with data	SHEEL	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)" & Display Output as HDMI 1080P	Capture Source shuld be "OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX & TDA3x)" & Display device as HDMI 1080P	
2	Run "OV10635 & UB964 4CH CSI2 Capture + Display" UC Select "1" For Multi channel mode	On selecting "1" Display must come up with 4CH mosaic on full screen and no buffer drops should be observe	
Execution type:	Automated		
Estimated exec. duration (sec):	60.00		
Priority:	Medium		
Requirements	package ADASVISION-1582: Shall support LVDS	Bios single multi camera usecases which use one DSP	
Keywords:	tda2ex-evm tda3xx-evm tda2ex-entry		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.6.2.Test Suite : SelectLink

Test Case VISIONSDK-1	86: VIP_4CH_Ca	pture_Select_Display	
Summary:			
Multi Cam Capture Select	Display UC		
supported on TDA2x/TDA	2Ex/TDA3x		
Input : OV10635 Sensor			
·			
Output : HDMI 1080P Preconditions:			
	-i IDII4 0 -t	200fee and display manipus on IDLM 0 at 000fee	
#:	Step actions:	30fps and display running on IPU1-0 at 60fps Expected Results:	Execution Status:
<u>π.</u>	отер аспола.	Check Logs of LVDS Capture Select Display UC	Execution Status.
4	Run Testsuite		
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and	
		display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-15	521: select a particular channel	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.6.3.Test Suite : VIP_4CH_Capture_Color_To_Gray_Display

Test Case VISIONSDK-1	88: VIP_4CH_Ca	pture_Color_To_Gray_Display	
Summary:			
Multi Cam Capture Color	to Gray Display U	IC .	
supported on TDA2x/TDA	2Ex/TDA3x		
Input : OV10635 Sensor			
Output : HDMI 1080P			
Preconditions:			
		100	
· ·		30fps and display running on IPU1-0 at 60fps	Execution Status:
<u>#.</u>	Step actions:	Expected Results: Check Logs of LVDS Capture Color to Gray Display UC	Execution Status.
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and	
		display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1	558: Support Sample Algorithm Link (Color to Gray Plug-Ins) w	rith inplace buffer processing
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.6.4.Test Suite: VIP_4CH_Capture_VPE_Sync_DMA_SWMS_Display

Test Case VISIONSDK-19	92: VIP_4CH_C	apture_VPE_Sync_DMA_SWMS_Display	
Summary:			
Multi Cam Capture VPE S	ync DMA SWMS	S Display UC	
supported on TDA2x/TDA	3x		
Input : OV10635 Sensor			
Output : HDMI 1080P			
	4.4		
On IPU/A15: System EDM	IA .		
On DSP: Local DMA			
Preconditions:			
Verify that Capture is runn	ing on IPU1-0 a	t 30fps and display running on IPU1-0 at 60fps	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
		Check Logs of LVDS Capture VPE Sync DMA SWMS Display UC	
1	Run Testsuite	Capture should be running on IPU1-0 at 30fps and	
		display should be running on IPU1-0 at 60fps	
Execution type:	Manual		
Estimated exec. duration			
(sec): Priority:	Medium		
Requirements		1559: Sample Algorithm Link (DMA SW Mosaic Plug-Ins)	
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm c_integration m_vpe		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.6.5.Test Suite: Rear_View_Panorama

Test Case VISIONSDK-301: RSVP_4CH_VIP_Capture_960deser_IMI

Summary:

RSVP UC:

4CH VIP Capture + Stereo (DSPx, EVEx) + Image Transform (DSP1) + Seam Detection (DSP2) + Stitching (DSP1) + Display (HDMI) (TDA3X)UC

Input: IMI OV10640 with 960 deserializer

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

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

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source shuld be OV10640 Sensor for SV - IMI (TDA3x ONLY) & Display device as HDMI 1080P	
2	Run "4CH VIP Capture + Stereo (DSPx, EVEx) + Image Transform (DSP1) + Seam Detection (DSP2) + Stitching (DSP1) + Display (HDMI) (TDA3X)" UC	Display must come up and no buffer drops should be observed	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1432: Integrate statistics on Stereo ISP ADASVISION-1433: Integrate 2A support on Stereo ISP 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		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case	VISIONSDK-302:	RSVP	Manual L	DC I	LUT	Generation

Summary:

RSVP UC:

"Manual RSVP LDC LUT generation for Stereo (DSPx, EVEx) + Image Transform (DSP1) + Seam Detection (DSP2) + Stitching (DSP1) + Display (HDMI) (TDA3X)" UC

Input: IMI OV10640 with 960 deserializer

Output: HDMI 1080P

Preconditions:

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

Run SRV calibration UC if required to generate LUT.BIN

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

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

			Execution
<u>#:</u>	Step actions:	Expected Results:	Status:
	Go to System Settings	Capture Source shuld be OV10640 Sensor for SV -	
1	Select Capture Source as	IMI (TDA3x ONLY)	
	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" & Display Output as HDMI 1080P	& Display device as HDMI 1080P	
2	Run "Manual RSVP LDC LUT generation for Stereo (DSPx, EVEx) + Image Transform (DSP1) + Seam Detection (DSP2) + Stitching (DSP1) + Display (HDMI) (TDA3X)" UC	Display must come up and no buffer drops should be observed	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1432: Integrate statistics on Stereo ISP ADASVISION-1433: Integrate 2A support on Stereo ISP 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		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.7.Test Suite: Radar

Test Case VISIONSDK-150: Radar_AR12_Capture_Null

Summary:

Radar Capture Null UC

Input : AR12 Output : Null

Supported on: TDA3x/TDA3x ALPS/TDA2x Cascade

Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in UART2

· .			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot TDA3x with Radar setup/TDA3xx ALPS Board/TDA2x Cascade	Shoul display Main Menu	
2	Run "Radar (Single AR1243) Capture + Null (TDA3xx Only) usecase" UC	No Display	
3	Press "P"	Check performance stats	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1441: AR12xx sensor capture ADASVISION-1445: RADAR processing performance benchmar ADASVISION-992: Radar Data Processing Usecase using AR12		
<u>Keywords:</u>	c_regression c_qualification tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-152: Radar_AR12_Capture_Radar_FrameCopy_DSP1_Null

Summary:

Radar Capture Radar Frame copy on DSP1 Null UC

Input : AR12
Output : Null
Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in UART2

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot TDA3x with Radar setup/TDA3xx ALPS Board	Should display Main Menu	

2	Run "Radar (Single AR1243) Capture + Radar Frame Copy (DSP1) + Null (TDA3xx Only) usecase" UC	No Display
3	Press "P"	Check performance stats
Execution type:	Manual	
Estimated exec. duration (sec):		
Priority:	Medium	
Requirements	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDR ADASVISION-1441: AR12xx sensor capture ADASVISION-1442: RADAR algorithm porting on DSP Alg link ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVI ADASVISION-992: Radar Data Processing Usecase using AR12xx Sens	≣
Keywords:	c_stress c_qualification c_stability tda3xx-alps tda3xx-AR12-Booster	
Execution Details		
Build	REL_3_6	
Tester	x0246581	
Execution Result:	Passed	
Execution Mode:	Manual	
Execution duration (sec):		

Test Case VISIONSDK-1	54: NullSrc_Capture_Radar_FFT_EVE1_Null_Read_Frames_SDca	rd		
Summary:				
Null Source Capture(SD c	ard) Radar FFT on EVE1 Null UC			
Input : AR12				
Output : Null				
Preconditions:				
Input files present in SD c	ard			
Debug prints will be in				
UART1 for TDA2x & UAR	T2 for TDA3x			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Boot TDA2x/TDA3x	Should display Main Menu		
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC	No display		
	Select Data Read/Write Mode as SD card	Charle manfarmana		
3	Press "P"	Check performance stats		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
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				

0.0	tootiopoitti obitti 100t <u>i</u> tari <u>lo</u> loli ariotioria.
	ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-989: Radar data read from SD card ADASVISION-990: Radar Data output to SD Card ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input
Keywords:	tda2xx-evm tda3xx-evm
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-1	55: NullSrc_Capture_Radar_FFT_EVE1_Null_Write_Fr	ames_SDcard	
Summary:			
Null Source Capture(SD c	ard) Radar FFT on EVE1 Null UC		
Input : AR12			
Output : Null			
Preconditions:			
Input files present in SD ca	ard		
	ai u		
Debug prints will be in			
UART1 for TDA2x & UAR	T2 for TDA3x		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as SD card	No display	
3	Select File IO menu	Writing single frame to SD card should be successfull	
	Write single frame to SD card	Should be successfull	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1115: [RADAR] Support for build support at ADASVISION-1269: [RADAR] Integrate Beam Forming ADASVISION-1570: power mamagemant - CPU IDLE ADASVISION-1571: power mamagemant - CPUIDLE: MADASVISION-1572: power mamagemant - CPUIDLE: IPADASVISION-1573: power mamagemant - CPUIDLE: DAASVISION-1574: power mamagemant - CPUIDLE: DAASVISION-1575: PM - CPUIDLE: Vision SDK Integra ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin ADASVISION-989: Radar data read from SD card ADASVISION-990: Radar Data output to SD Card ADASVISION-993: Radar Data Processing Usecase usin	Algorithm in SDK PU Core 0/1 Idle PU Core Idle SP 1/2 Core Idle VE 1/2/3/4 Core Idle tion of CPU IDLE ity on DSP and EVE	vrite
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		

Execution duration (sec):

Test Case VISIONSDK-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

OAKT FIOI TDAZX & OAK	12 101 1 DAGX		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as Network	No display	
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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Alg ADASVISION-1699: [RADAR] Propagate each output chan Plugin ADASVISION-1919: Radar: Allow accepting mmwave mess 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 ADASVISION-991: Radar data input and output via Etherne	nel info properly in RadarProcess sages from Network to translate to DSP and EVE	J
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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Test Case VISIONSDK-157:	NULLSTO	Capture	Radar		FVF1	NIIII	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

UARTI IOI IDAZX & UARTZ IOI IDA3X				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Boot TDA2x/TDA3x	Should display Main Menu		

2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC	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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	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		
Keywords:	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-232: Radar_AR12_Capture_Radar_Object_Detect_EVE1_Null

<u>Summary</u>

Radar Capture Radar Object Detect on EVE1 Null UC

Input : AR12
Output : Null
Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in UART2

Debug prints will be in OA	1112			
<u>#:</u>	Step actions:	Expected Results:	Execution Status:	
1	Boot TDA3x with Radar setup/TDA3xx ALPS Board	Should display Main Menu		
2	Run "Radar (Single AR1243) Capture + Radar Object Detect (EVE1) + Null (TDA3xx Only) usecase" UC	No Display		
3	Select Normal Frame/Advanced Frame.	Depending upon selection Normal Frame/Advanced Frame should be selected		
4	Press "P"	Check performance stats		
5	Press 'c' to read back and verify parameters.	Should be able to read and verify parameters		
6	Press 'd' to dynamically change the slope.	Slope should be changed dynamically		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium	Medium		
Requirements	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK 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-992: Radar Data Processing Usecase using AR12xx Sensor Data input			
Keywords:	tda3xx-alps tda3xx-AR12-Booster			
Execution Details				
Build	REL_3_6			

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

Test Case VISIONSDK-233: Radar_AR12_Capture_Radar_Object_Detect_EVE1_Display

Summary:

Radar Capture Radar Object Detect on EVE1 Display UC

Input : AR12
Output : HDMI

Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in UART2

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot TDA3x with Radar setup	Should display Main Menu	
2	Run "Radar (Single AR1243) Capture + Radar Object Detect (EVE1) + Display (TDA3xx Only) usecase" UC	Display should come up & no buffer drops should observed	
3	Select Normal Frame/Advanced Frame.	Depending upon selection Normal Frame/Advanced Frame should be selected	
4	Press "P"	Check performance stats	
5	Press 'c' to read back and verify parameters.	Should be able to read and verify parameters	
6	Press 'd' to dynamically change the slope.	Slope should be changed dynamically	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1441: AR12xx sensor capture ADASVISION-1443: Radar output interpolation for display ADASVISION-1444: Simple RADAR capture + display use case ADASVISION-1672: [Radar] Add Radar System planner to the Release Package 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-988: Radar output visualization ADASVISION-990: Radar Data output to SD Card ADASVISION-992: Radar Data Processing Usecase using AR12xx Sensor Data input		
<u>Keywords:</u>	ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input c_regression c_stress c_stability tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
EXCOGRACION WIGGO.	manaa		

Test Case VISIONSDK-243: Radar_Flash_AR12_Firmware

Summary:

Radar AR12 Firmaware Flash UC

supported on TDA3x ALPS board

Input : AR12 Firmware						
Preconditions:						
AR12 firmware is part of b	inaries					
Debug prints will be in UA	RT2					
<u>#:</u>	Step actions:	Expected Results:	Execution Status:			
1	Boot TDA3xx ALPS Board	Shoul display Main Menu				
2	Run "AR12 Firmware Flash (ALPS board Only)" UC	No Display				
3	Erase AR12xx Flash	Should erase previous firmware from flash				
4	Flash AR12xx Firmware	New firmware should be flashed				
Execution type:	Manual					
Estimated exec. duration (sec):						
Priority:	Medium					
Requirements	ADASVISION-1106: [RADAR] Add support for ALPS Hardware ADASVISION-1107: [RADAR] Support for Flashing firmware to AR12 flash on ALPS					
Keywords:	tda3xx-alps					
Execution Details						
Build	REL_3_6					
Tester	x0246581					
Execution Result:	Passed					
Execution Mode:	Manual					

Test Case VISIONSDK-313: Radar_AR12_Multi_Capture_Radar_FFT_EVE1_Display

Summary:

Execution duration (sec):

Radar Capture Radar FFT on EVE1 Display UC

Input : AR12
Output : HDMI
Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in UART2

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Boot TDA3x/RVP with Radar setup	Should display Main Menu	
2	Run "Radar (Single AR1243) Capture + Radar FFT (EVE1) + Display (TDA3xx Only) usecase" UC	Display should come up & no buffer drops should observed	
3	Select Normal Frame/Advanced Frame.	Depending upon selection Normal Frame/Advanced Frame should be selected	
4	Press "P"	Check performance stats	
5	Press 'c' to read back and verify parameters.	Should be able to read and verify parameters	
6	Press 'd' to dynamically change the slope.	Slope should be changed dynamically	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1255: Radar Advance frame configura ADASVISION-1268: [RADAR] Integrate Peak Detect ADASVISION-1269: [RADAR] Integrate Beam Formi ADASVISION-1441: AR12xx sensor capture ADASVISION-1443: Radar output interpolation for d ADASVISION-1444: Simple RADAR capture + displa ADASVISION-1873: 4 x AWR1243 Satellite Demo ADASVISION-1875: Satellite radar chip support in R	tion EVE Algorithm in SDK ing Algorithm in SDK isplay ay use case	

010	testreport obtev_rest_rian_o_o_ranctional_rbAoxx
	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-988: Radar output visualization ADASVISION-990: Radar Data output to SD Card ADASVISION-992: Radar Data Processing Usecase using AR12xx Sensor Data input ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input
Keywords:	c_regression c_stress c_stability tda3xx-AR12-Booster
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-314: Radar_Test_Source_Object_Detection

Summary:

Radar Test Source Object Detection Input : testdata Output : HDMI Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in LIAPT?

<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Enable Macro ENABLE_TEST_SOURCE in chains_common_ar12xx.c & configure test source in ChainsCommon_ar12xxEnableTestSource	Should be able to configure test sorce	
2	Build the code by running below command make -s -j depend; make -s -j	should be able to build	
3	Run "Radar (Single AR1243) Capture + Radar Object Detect (EVE1) + Display (TDA3xx Only) usecase" UC Select Normal Frame/Advanced Frame.	Depending upon selection Normal Frame/Advanced Frame should be selected	
4	Press "P"	Check performance stats	
5	Press 'c' to read back and verify parameters.	Should be able to read and verify parameters	
6	Press 'd' to dynamically change the slope.	Slope should be changed dynamically	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1255: Radar Advance frame configuration ADASVISION-1268: [RADAR] Integrate Peak Detection ADASVISION-1269: [RADAR] Integrate Beam Forming ADASVISION-1441: AR12xx sensor capture ADASVISION-1444: Radar output interpolation for disp ADASVISION-1444: Simple RADAR capture + display ADASVISION-1677: [RADAR] Dynamic chirp configura ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin ADASVISION-987: Radar Processing Single Alg Plugin ADASVISION-988: Radar output visualization ADASVISION-990: Radar Data output to SD Card ADASVISION-992: Radar Data Processing Usecase us ADASVISION-993: Radar Data Processing Usecase us ADASVISION-993: Radar Data Processing Usecase us	n EVE Algorithm in SDK Algorithm in SDK lay use case tion and thorough dynamic configuration illity n on DSP and EVE	testing
<u>Keywords:</u>	c_regression c_stress c_stability tda3xx-AR12-Booster	<u> </u>	

Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

1.8.Test Suite : Build

1.8.1.Test Suite : VSDK_Builds

<u>Summary:</u>			
VSDK BIOS different con	figuartions Build		
Preconditions:			
Follow UG to Install relea	se package		
	ng PDK) should be part of release package		
`	onents (gcc tool,linaro tool chain)		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Navigate to (vsdk_install_path)/vision_sdk/build	Should dislay config for tda2xx_evm_bios_all	
	& run make -s showconfig		
2	Modify Rules.mk file to other available MAKECONFIG	Should display config for MAKECONFIG selected	
	& run make -s showconfig		
3	run make -s -j depend Should build binaries without any error & then make -s -j		
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
	ADASVISION-1081: J6 Entry support for V ADASVISION-1095: Platform support & ma ADASVISION-1167: Error handling require ADASVISION-1348: AppImage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory map ADASVISION-1352: Multiple platforms sup ADASVISION-1354: Build profile selection ADASVISION-1355: 256MB memory map ADASVISION-1356: 1GB memory map ADASVISION-1356: 1GB memory map ADASVISION-1358: 512MB memory map ADASVISION-1359: MMU configs of differ ADASVISION-1360: Platform selection ADASVISION-1360: Platform selection ADASVISION-1361: Selective builds for for ADASVISION-1409: shall support Bios only ADASVISION-1539: Multiple heap support ADASVISION-1530: Cache configuration ADASVISION-1531: Memory config ADASVISION-1532: External Memory alloc ADASVISION-1533: Internal memory alloc ADASVISION-1535: Internal memory alloc ADASVISION-1535: Internal memory alloc ADASVISION-1535: Internal memory alloc ADASVISION-1535: Internal memory alloc ADASVISION-1570: power mamagemant - ADASVISION-1571: power mamagem	aintainability ments s s s s s s port ent CPUs flowing links - VPE, ISS y build iux on A15 cation ation from OCMC ation from DSP L2 SRAM at create time only, no ation from DSP L1 SRAM - CPU IDLE	o run time

.013	testreport 1 3DRV_rest_1 lan_3_0_1 drictional_1DA3XX
	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
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_integration
Attached files	BIOS Different Build Config: build_vsdk.sh build_vsdk.sh The build_vsdk.sh BIOS Different Build Config: bui
Execution Details	
Build	REL_3_6
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-2	78: VSDK_KW_build		
Summary:			
VSDK Klocwork Build			
Preconditions:			
Jenkin Node is up & runni	ng		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Login to Jenkin server & trigger VSK_KW_build projet	Should build KW project & sent a report with open criticcal & major MISRA-C issues	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
Requirements	ADASVISION-1353: Static co ADASVISION-1517: Static co ADASVISION-1525: Follow co	de checker MISRA-C	
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.8.2.Test Suite : Radar_Builds

Test Case VISIONSDK-24	Test Case VISIONSDK-242: Radar_default_build				
Summary:					
Radar Default Build					
Preconditions:					
Follow UG to Install release	se package				
Copy all necessary compo	onents (gcc tool)				
<u>#:</u>	Step actions:	Step actions: Expected Results: Execution Status:			
1	Navigate to (radar_install_path)/vision_sdk/build & run make -s showconfig	Should dislay 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 fo ADASVISION-1348: Applmage generation	ADASVISION-1108: [RADAR] Support for 128 MB build by default ADASVISION-1348: Applmage generation			
Keywords:	tda3xx-evm c_qualification				
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	de: Manual				
Execution duration (sec):					

Test Case VISIONSDK-280: Radar_BIOS_different_builds					
Summary:					
Radar different configuarti	Radar different configuartions Build				
Preconditions:					
Follow UG to Install release	se package				
All ti_cmponents (including	g PDK) should be part of release package				
Copy all necessary compo	onents (gcc tool,linaro tool chain)				
<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Navigate to	Should dislay config for			

019	testreport PSDKV_Test_Plan_3_6_Functional_TDA3xx		
	(vsdk_install_path)/vision_sdk/build	tda3xx_evm_bios_radar	
	& run make -s showconfig		
2	Modify Rules.mk file to other available MAKECONFIG	Should display config for MAKECONFIG selected	
	& run make -s showconfig		
3	run make -s -j depend & 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	Should Greate ODE	
	Iwaiiuai		
Estimated exec. duration (sec):			
Priority:	Medium		
	ADASVISION-1108: [RADAR] Support for ADASVISION-1115: [RADAR] Support for ADASVISION-1348: AppImage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory map ADASVISION-1352: Multiple platforms sup ADASVISION-1354: Build profile selection ADASVISION-1359: MMU configs of differ ADASVISION-1360: Platform selection ADASVISION-1755: [RADAR] Add support ADASVISION-1853: [RADAR] VSDK to support ADASVISION-1854 [RADAR] VSDK to support ADASV	ouild support and file based capture read process we so port ent CPUs for TDA2px EVM	rrite
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster c_integration		
Attached files	Radar Different Build Config : buildbuild_radar.sh	_radar.sh	
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		

1.9.Test Suite : Release_Process

Test Case VISIONSDK-245: VSDK_Radar_release_check_list

Summary:

VSDK & Radar release check list

Preconditions:

VSDK & Radar RC package already installed & tested

Verify that release goes through the standard release process

<u>#:</u>	Step actions:	Expected Results:	Executio Status:
1	Check for licenses, mainfest, 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)	Tracebility report (Req -> Test) should have all req mapped to tc	
	& executed in testing phase	Test result matrix should have nothing in "Not Run" state	
3	Check updated project plan, test paln, 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 upddated docs for current release should be available	
5	Check for all docs available in vision_sdk/docs folder	All upddated 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	
Execution type:	Manual	1	
Estimated exec. duration (sec):			
<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 ADASVISION-1675: Processor SDK Vision ti.co ADASVISION-1690: Process: Update Software ADASVISION-1752: [Radar] Add Radar System ADASVISION-875: Develop a How to Debug be binaries, restart	m landing page - clean-up Integration and Test Strategy document	ly load
Keywords:	None		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-246: VSDK_pacckage_creation_and_installation

Summary:

VSDK package creation & installation on windows & linux machine

Preconditions:

VSDK RC package installed & tested

VSDR NC package installed	a a testea		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	
ľ	Install on windows machine	Installation should be success	
19	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	
	Install on Linux machine	Installation should be success	
1.3	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	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
	ADASVISION-1096: packaging and installation ADASVISION-1512: Single installer for vision SDK ADASVISION-1514: Customer collaterals		
Keywords:	c_qualification		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-2	47: Radar_расскаде_сг	eation_and_installation	
Summary:			
Radar package creation 8	installation on windows	& linux machine	
Preconditions:			
Radar RC package install	ed & tested		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine Check for all customer collaterals	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc	

	& Build with default config	Build should be success		
	Install on Linux machine	Installation should be success		
3	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		
Execution type:	Manual			
Estimated exec. duration (sec):				
Priority:	Medium			
Requirements	ADASVISION-1096: pa ADASVISION-1514: Cu ADASVISION-917: Sep			
Keywords:	c_qualification			
Execution Details				
Build	REL_3_6			
Tester	x0246581	x0246581		
Execution Result:	Passed			
Execution Mode:	Manual			
Execution duration (sec):				

1.10.Test Suite : Boot_Modes

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

<u> </u>	• • • • • • • • • • • • • • • • • • • •	,	
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Go to System Settings		
1	Select Capture Source as OV10635	Capture Source shuld be OV10635	
	& Display Output as HDMI 1080P	& 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 ADASVISION-888: Security Enal ADASVISION-913: TDA3x Secur	olement – TDA2x	
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.10.2.Test Suite : QSPI_Boot

Test Case VISIONSDK-2	74: Load_Binaries_using_QSPI		
Summary:			
Load Binaries using QSPI			
Preconditions:			
Build Appimage & SBL for	r QSPI		
<u>#:</u>	Step actions:	Expected Results:	Execution Status:
	Connect EVM through CCS debug		
1	& Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & Applmage to QSPI	SBL & Applmage should be flashed to QSPI	
	Discoonect CCS &		
3	Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot	
	D (5)44	EVM should boot with binaries &	
4	Boot EVM	Display Main Menu	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1346: QSPI boot mode ADASVISION-1347: Flashing method		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.10.3.Test Suite: QSPI_SD_Boot

Test Case VISIONSDK-2	75: Load_Binaries_using_QSPI_SD		
<u>Summary:</u>			
Load Binaries using QSPI	SD		
supported only on TDA3x/	/RVP		
Preconditions:			
Build Appimage & SBL for	QSPI SD Boot		
Copy Applmage to SD car			
# <u>:</u>	Step actions:	Expected Results:	Execution Status:
	Connect EVM through CCS debug	SYSBOOT PINs should be for debug	
1	& Follow UG to set SYSBOOT PIN for CCS debug		
2	Follow UG to Flash SBL	SBL should be flashed to QSPI	
3	Discoonect CCS		
	Insert SD card to SD card slot	SYSBOOT PIN should be for QSPI SD Boot	
	Follow UG to set SYSBOOT PIN for QSPI SD Boot	2001	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
Execution type:	Manual		
Estimated exec. duration (sec):			
Priority:	Medium		
<u>Requirements</u>	ADASVISION-1344: SD boot mode ADASVISION-1347: Flashing method ADASVISION-1423: Basic board bringup (serial, pinmux, ddr, nand) using SBL ADASVISION-1425: Boot mode bringup ADASVISION-1601: SD card file system support with VSDK		
Keywords:	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_6		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.10.4.Test Suite : CCS_Boot

Test Case VISIONSDK-33	32: Load_Binaries_using_CCS				
Summary:					
Load Binaries using CCS					
Preconditions:					
Build binaries					
<u>#:</u>	Step actions:	Expected Results:	Execution Status:		
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug			
2	Load binaries on each core separately or use the ".js" script available under	Binaries should be load on each core successfully			
	vision_sdk/build/rtos/scripts to load on all cores at once	& 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			
Execution type:	Manual				
Estimated exec. duration (sec):					
Priority:	Medium				
Requirements	None				
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster				
Execution Details					
Build	REL_3_6				
Tester	x0246581				
Execution Result:	Passed				
Execution Mode:	Manual				
Execution duration (sec):					