



Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV_Test_Plan_3_3_Functional_RVP

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: PSDKV_Test_Plan_3_3_Functional_RVP

RVP Functional Test Plan

Will cover all functional test for RVP board

1.1.Test Suite : SRV

1.1.1.Test Suite : CAL_SRV

1.1.1.1.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

#:	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 should 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 "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

Keywords: tda3xx-evm
tda3xx_rvp
c_qualification
m_iss

Execution Details

Build REL_3_3

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

#:	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 should 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	Go to ISS setting Select LDC = OFF, VTNF = OFF, WDR = 1 PASS WDR	Selected ISS settings will be saved	
3	Run "4CH ISS capture + ISS ISP + Simcop + Surround View (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.	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-148: ISS_2D_SRV_960/964deser_without_TDA3X_FolderSummary:

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

#:	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 should 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 "4CH ISS capture + ISS ISP + Simcop + Surround View (DSP1) + Display" UC	Display must come up and no buffer drops should be observe	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.1.1.2.Test Suite : 3D_SRV

Test Case VISIONSDK-131: ISS_3D_SRV_960/964deser			
<u>Summary:</u> 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			
<u>Preconditions:</u> Ensure TDA3x folder present in SD card with CHARTPOS.BIN & LENS.BIN Run SRV calibration UC if required to generate LUT.BIN Verify whether display shows a smooth stitching of all 4 cameras. All running at 30fps, Also check performance stats match with datasheet			
#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source should 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.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_qualification		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-133: ISS_3D_SRV_960/964deser_360_transitionSummary:

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.

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source should 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	Check for 3D SRV transition	SRV transition should cover 360 degree	
4	Check User is able to Start/Stop transition Select "s" to Start/Stop transition Select "n" to change to next View Point Select "r" to change to previous View Point	On selecting "s" Transitions should stop On selecting "n" Transition should happen to next view point On selecting "r" Transition should happen to previous view point	

		On selecting "s" again	
		Transition should start normally	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_integration		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-134: ISS_3D_SRV_960/964deser_Dump_FramesSummary:

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.

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source should 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) Select "d" to Save Display Frame to MMC/SD card	On selecting "1" RAW frame from channel 0 should be saved in DDR On selecting "2" DeWarp Output Frame should be saved in DDR 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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-135: ISS_3D_2D_SRV_960/964deserSummary:

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.

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings Select Capture Source as "OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	Capture Source should 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 + 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.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_regression c_stress c_qualification c_stability m_iss m_algorithm		
Execution Details			
Build	REL_3_3		

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

Test Case VISIONSDK-136: ISS_3D_SRV_Rearview_960/964deserSummary:

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

#:	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 should 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) + RearView + Display" UC	Display must come up with 3D SRV output & Rear view camera output and no buffer drops should be observed	

Execution type: AutomatedEstimated exec. duration (sec): 60.00Priority: MediumKeywords: tda3xx-evm
tda3xx_rvp**Execution Details**

Build REL_3_3

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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 should 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	It throws error	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.1.2.Test Suite : SRV_Calibration

Test Case VISIONSDK-137: SRV_Calibration_UC_auto_calibration

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

		PERSMAT.BIN (in case of TDA2x/TDA2ex)	
		LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_qualification		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-138: SRV_Calibration_UC_manual_calibrationSummary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

		depending upon the hardware connected & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras and no buffer drops should be observe	
3	Select Manual Calibration & generate CALMAT	should be able to generate CALMAT.BIN	
4	Remove the card & refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	Should be able to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	
5	Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x) to MMC/SD card & insert into EVM & Run any SRV UC	SRV output should be proper	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
Execution Details			
Build		REL_3_3	
Tester		x0246581	
<u>Execution Result:</u>		Passed	
<u>Execution Mode:</u>		Manual	
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-139: SRV_Calibration_UC_default_calibrationSummary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras and no buffer drops should be observed	
3	Select Default Calibration	On selecting Default calibration It will generate PERSMAT.BIN (in case of TDA2x/TDA2ex) LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-140: SRV_Calibration_UC_auto_calibration_Dump_Frame

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	Capture Source should be OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras and no buffer drops should be observed	
3	Select Auto Calibration	On selecting Auto calibration It will detect corners for all 4 cameras & generate PERSMAT.BIN (in case of TDA2x/TDA2ex) LUT.BIN (in case of TDA3x)	
4	Select "d" to Save Display Frame to MMC/SD card	On selecting "d" Display Frame should be saved to MMC/SD card	
Execution type:		Manual	
Estimated exec. duration (sec):			
Priority:		Medium	
Keywords:		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:		Passed	

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

Test Case VISIONSDK-141: SRV_Calibration_UC_auto_calibration_update_2D_PERSMATSummary:

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

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

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

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

Run SRV calibration UC to generate LUT.BIN

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

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

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

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

Test Case VISIONSDK-142: SRV_Calibration_UC_auto_calibration_without MMC_SD

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

Boot from QSPI

No MMC/SD card present

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

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

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

Test Case VISIONSDK-143: SRV_Calibration_UC_auto_calibration_without_TDAXX_Folder

Summary:

SRV Calibration UC supported on TDA2x/TDA2Ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

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

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

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

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

1.1.3.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.

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot EVM with 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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.2.Test Suite : Mono_Cam

1.2.1.Test Suite : ISS

1.2.1.1.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>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm c_stress c_qualification c_stability		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-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 is running on IPU1-0 at 30fps

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings	Capture Source shuld be AR0143	

	Select Capture Source as AR0143 & Display Output as HDMI 1080P	& 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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm c_regression c_performance c_qualification m_iss		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-334: ISS_Capture_AR143_1PASS_WDRSummary:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-335: ISS_Capture_AR143_2PASS_WDRSummary:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm c_stress c_stability		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Failed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			
Execution notes	ADASVISION-1848: [TDA3x/TDA2Px] Non Image Quality issue with 2A & AEWB		

Test Case VISIONSDK-336: ISS_Capture_AR143_2PASS_WDR_PerformanceSummary:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	
4	Press "P" & check for FPS	FPS should be in the range 29.5 - 30.5	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-337: ISS_Capture_AR143_2PASS_WDR_Dynamic_RangeSummary:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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 in dark as well as bright regions. Dark regions maybe noisier than bright regions but NSF effect should be visible.	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Failed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			
Execution notes	ADASVISION-1848: [TDA3x/TDA2Px] Non Image Quality issue with 2A & AEWB		

Test Case VISIONSDK-338: ISS_Capture_AR143_2PASS_WDR_AESummary:

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

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

Test Case VISIONSDK-339: ISS_Capture_AR143_2PASS_WDR_VTNFSummary:

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

#:	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 = 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.	

		Toggleing between VTNF (0/1) should have visible impact on temporal noise.	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-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

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

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

Test Case VISIONSDK-341: ISS_Capture_AR143_2PASS_WDR_LDC_VTNF

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

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings Select Capture Source as AR143 & Display Output as HDMI 1080P	Capture Source should be AR143 & 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		
Keywords:	tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-307: ISS_dump_frames_various_tap_pointsSummary:

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

#:	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 should 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	
3	Run DCC tool for ISS image tuning Connect to target EVM (using IP) & dump frames from various tap-points	should be able to dump frames from various tap-points	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration</u>		60.00	

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	None
Execution Details	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

1.2.2.Test Suite : MISC

1.2.2.1.Test Suite : StatisticsLogs

Test Case VISIONSDK-212: Print_PRCM_Statistics_Dpll_Status

Summary:

Print PRCM Statistics Dpll Status

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

Test Case VISIONSDK-213: Print_PRCM_Statistics_Temperature

Summary:

Print PRCM Statistics Temperature

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

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

Test Case VISIONSDK-214: Print_PRCM_Statistics_VoltageSummary:

Print PRCM Statistics Voltage

#:	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		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-215: Print_PRCM_Statistics_Module_Power_StateSummary:

Print PRCM Statistics Module Power State

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "4" for Module Power State	On selecting "4" should print Module Power State Module Name & Module state Module SIDLE State Clock Activite State Power Domain State	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		

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

Test Case VISIONSDK-216: Print_PRCM_Statistics_CPU_FrequencySummary:

Print PRCM Statistics CPU Frequency

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

Test Case VISIONSDK-217: Print_PRCM_Statistics_Peripherals_FrequencySummary:

Print PRCM Statistics Peripherals Frequency

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "6" for Peripherals Frequency	On selecting "6" should print Peripherals Frequency of QSPI & DSS	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-218: Print_PRCM_Statistics_Prcm_Register_DataSummary:

Print PRCM Statistics Prcm Register Data

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "7" for Prcm Register Data	On selecting "6" should print Prcm Register Data of all POWER DOMAIN Reg. Address & Value	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-219: Print_PRCM_Statistics_Power_ConsumptionSummary:

Print PRCM Statistics Power Consumption

Supported only on TDA2x

#:	Step actions:	Expected Results:	Execution Status:
1	Go to System Settings -> Print PRCM Statistics Press "8" for Power Consumption	On selecting "8" should print Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-220: Print_PRCM_Statistics_All_PRCM_StatsSummary:

Print PRCM Statistics All PRCM Stats

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

1.2.2.2.Test Suite : TLFW_verify

Test Case VISIONSDK-309: TLFW_verification			
<u>Summary:</u>			
Verifying testlink fw			
<u>Preconditions:</u>			
staf should be running			
#:	Step actions:	Expected Results:	Execution Status:
1	1. Add all vision SDK test cases to test link, Map with requirements from JIRA 2. Create a test plan & under that create a build 3. Add test cases to execute for that particular build 4. Trigger all automated test cases from test link 5. Execute remaining manual test cases from test link 6. Generate test report	User should be able to trigger all automated test cases from test link & also able to update test result for manual test cases	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
Execution Details			

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

Test Case VISIONSDK-325: VSDK_restructuring_directory_structure

Summary:

restructuring directory structure for VSDk 3.0 release

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Restructure directory structure for VSDK into separate Folder as below link_fw Make System (Common for FW & all Apps modules) sample_app apps algorithms docs testsuite	Directory structure should be as stated	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.3.Test Suite : Radar

Test Case VISIONSDK-150: Radar_AR12_Capture_Null

Summary:

Radar Capture Null UC

Input : AR12

Output : Null

Preconditions:

Ensure AR12 sensor Radar HW is connected to TDA3x EVM

Debug prints will be in UART2

#:	Step actions:	Expected Results:	Execution Status:
1	Boot TDA3x with Radar setup/TDA3xx ALPS Board	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

Keywords:

c_regression
c_qualification
tda3xx-alps
tda3xx-AR12-Booster

Execution Details

Build

REL_3_3

Tester

x0246581

Execution Result:

Passed

Execution Mode:

Manual

Execution duration (sec):

Test Case VISIONSDK-152: Radar_AR12_Capture_Radar_FrameCopy_DSP1_Null			
<u>Summary:</u>			
Radar Capture Radar Frame copy on DSP1 Null UC			
Input : AR12			
Output : Null			
<u>Preconditions:</u>			
Ensure AR12 sensor Radar HW is connected to TDA3x EVM			
Debug prints will be in UART2			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Keywords:</u>	c_stress c_qualification c_stability tda3xx-alps tda3xx-AR12-Booster
Execution Details	
Build	REL_3_3
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-154: NullSrc_Capture_Radar_FFT_EVE1_Null_Read_Frames_SDCard

Summary:

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

Input : AR12

Output : Null

Preconditions:

Input files present in SD card

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as SD card	No display	
3	Press "P"	Check performance stats	

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

Test Case VISIONSDK-155: NullSrc_Capture_Radar_FFT_EVE1_Null_Write_Frames_SDCard

Summary:

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

Input : AR12

Output : Null

Preconditions:

Input files present in SD card

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

#:	Step actions:	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 Write single frame to SD card	Writing single frame to SD card should be successful	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-156: NullSrc_Capture_Radar_FFT_EVE1_Null_Read_Frames_NW

Summary:

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

Input : AR12

Output : Null

Preconditions:

Ensure NDK is enabled in build

Input files sent through network using network_tx

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

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

Execution duration (sec):

Test Case VISIONSDK-157: NullSrc_Capture_Radar_FFT_EVE1_Null_Write_Frames_NW

Summary:

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

Input : AR12

Output : Null

Preconditions:

Ensure NDK is enabled in build

Input files sent through network using network_tx

Debug prints will be in

UART1 for TDA2x & UART2 for TDA3x

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Boot TDA2x/TDA3x	Should display Main Menu	
2	Run "Null Source (SD/Network) Input + Radar FFT (EVE1) + Null (SD/Network)" UC Select Data Read/Write Mode as Network	No display	
3	Run network_rx to dump files	Should be able to dump frmaes	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-232: Radar_AR12_Capture_Radar_Object_Detect_EVE1_Null

Summary:

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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-233: Radar_AR12_Capture_Radar_Object_Detect_EVE1_DisplaySummary:

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>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	c_regression c_stress c_stability tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-243: Radar_Flash_AR12_FirmwareSummary:

Radar AR12 Firmware Flash UC

supported on TDA3x ALPS board

Input : AR12 Firmware

Preconditions:

AR12 firmware is part of binaries

Debug prints will be in UART2

#:	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		
Keywords:	tda3xx-alps		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-313: Radar_AR12_Multi_Capture_Radar_FFT_EVE1_DisplaySummary:

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

#:	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		
Keywords:	c_regression c_stress c_stability tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

Test Case VISIONSDK-314: Radar_Test_Source_Object_DetectionSummary:

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 UART2

#:	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 source	
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		
Keywords:	c_regression c_stress c_stability tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

1.4.Test Suite : Build

1.4.1.Test Suite : VSDK_Builds

Test Case VISIONSDK-249: VSDK_BIOS_different_builds			
<u>Summary:</u>			
VSDK BIOS different configurations Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
All ti_cmponents (including PDK) should be part of release package			
Copy all necessary components (gcc tool,linaro tool chain)			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Navigate to (vsdk_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda2xx_evm_bios_all	
2	Modify Rules.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_integration		
<u>Attached files</u>	<ul style="list-style-type: none">• BIOS Different Build Config : build_vsdk.sh• build_vsdk.sh		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-278: VSDK_KW_build			
<u>Summary:</u> VSDK Klocwork Build			
<u>Preconditions:</u> Jenkin Node is up & running			
#:	Step actions:	Expected Results:	Execution Status:
1	Login to Jenkin server &	Should build KW project &	

	trigger VSK_KW_build projet	sent a report with open criticcal & major MISRA-C issues	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.4.2.Test Suite : Radar_Builds

Test Case VISIONSDK-242: Radar_default_build			
<u>Summary:</u>			
Radar Default Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
Copy all necessary components (gcc tool)			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Navigate to (radar_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda3xx_evm_bios_radar	
2	Check default config	By default all IPU1_0, IPU1_1, DSP1, EVE1 are enabled Memory should be 128MB NDK should be disabled & A15_TARGET_OS=Bios	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda3xx-evm c_qualification		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-280: Radar_different_builds			
<u>Summary:</u>			
Radar different configurations Build			
<u>Preconditions:</u>			
Follow UG to Install release package			
All ti_components (including PDK) should be part of release package			
Copy all necessary components (gcc tool,linaro tool chain)			
#:	Step actions:	Expected Results:	Execution Status:
1	Navigate to (vsdk_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda3xx_evm_bios_radar	

2	Modify Rules.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster c_integration		
<u>Attached files</u>	<ul style="list-style-type: none"> • Radar Different Build Config : build_radar.sh • build_radar.sh 		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.5.Test Suite : Release_Process

Test Case VISIONSDK-245: VSDK_Radar_release_check_list			
<u>Summary:</u>			
VSDK & Radar release check list			
<u>Preconditions:</u>			
VSDK & Radar RC package already installed & tested			
Verify that release goes through the standard release process			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Check for licenses, manifest, release notes, test reports, datasheets	Release shall comply for the basic release process such as export license, OSRB approval etc.	
2	Check there are test cases for all product requirements (planned in release) & executed in testing phase	Traceability report (Req -> Test) should have all req mapped to tc Test result matrix should have nothing in "Not Run" state	
3	Check updated project plan, test plan, test strategy docs for release are all available in clearcase	All updated version of docs should be available in clearcase	
4	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
5	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-246: VSDK_package_creation_and_installation			
<u>Summary:</u>			
VSDK package creation & installation on windows & linux machine			
<u>Preconditions:</u>			
VSDK RC package installed & tested			
#:	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	

2	Install on windows machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
3	Install on Linux machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		c_qualification	
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-247: Radar_pacckage_creation_and_installationSummary:

Radar package creation & installation on windows & linux machine

Preconditions:

Radar RC package installed & tested

#:	Step actions:	Expected Results:	Execution Status:
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
3	Install on Linux machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Keywords:</u>		c_qualification	
Execution Details			

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

1.6.Test Suite : Boot_Modes

1.6.1.Test Suite : QSPI_Boot

Test Case VISIONSDK-274: Load_Binaries_using_QSPI			
<u>Summary:</u>			
Load Binaries using QSPI			
<u>Preconditions:</u>			
Build Appimage & SBL for QSPI			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Follow UG to Flash SBL & ApplImage to QSPI	SBL & ApplImage should be flashed to QSPI	
3	Discoconnect CCS & Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.6.2.Test Suite : QSPI_SD_Boot

Test Case VISIONSDK-275: Load_Binaries_using_QSPI_SD

Summary:

Load Binaries using QSPI SD
supported only on TDA3x/RVP

Preconditions:

Build Appimage & SBL for QSPI SD Boot
Copy AppImage to SD card

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

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Keywords: tda3xx-evm
tda3xx_rvp

Execution Details

Build REL_3_3

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.6.3.Test Suite : CCS_Boot

Test Case VISIONSDK-332: Load_Binaries_using_CCS			
<u>Summary:</u>			
Load Binaries using CCS			
<u>Preconditions:</u>			
Build binaries			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Connect EVM through CCS debug & Follow UG to set SYSBOOT PIN for CCS debug	SYSBOOT PINs should be for debug	
2	Load binaries on each core separately or use the ".js" script available under vision_sdk/build/rtos/scripts to load on all cores at once	Binaries should be load on each core successfully & Display main menu on uart console	
3	From Main Menu run any UC	UC should run successfully	
4	Check for few register address whether displaying proper data or not	Data should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_3		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			