



Test Plan Execution Report

Test Project: VISIONSDK

Test Plan: PSDKV_Test_Plan_3_5_Functional_RVP

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Test Project: VISIONSDK

Project: VISIONSDK Location: TII Owner: Sivasankaran, Shiju

Test Plan: PSDKV_Test_Plan_3_5_Functional_RVP

RVP Functional Test Plan

Will cover all functional test for rvp

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			
<u>Summary:</u>			
ISS 2D SRV UC			
Input : IMI OV10640 / TIDA AR140 with 960 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			
<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 "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>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1396: 4ch 2D surround view with OV10640 Bayer sensors ADASVISION-1579: low cost surround view with TDA3x		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_qualification m_iss		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

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>	<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	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>Requirements</u>	ADASVISION-1579: low cost surround view with TDA3x		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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>Requirements</u>	ADASVISION-1167: Error handling requirements ADASVISION-1526: Error handling ADASVISION-1579: low cost surround view with TDA3x		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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)"	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 Output as HDMI 1080P	& 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>Requirements</u>	<p>ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment</p> <p>ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters</p> <p>ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table</p> <p>ADASVISION-1071: TDA3x 3D SRV : Boot time optimization</p> <p>ADASVISION-1087: Support synchronization of camera in UB964</p> <p>ADASVISION-1090: Update TI logo</p> <p>ADASVISION-1257: AR0143 Sensor Support</p> <p>ADASVISION-1295: Display Link support for various input data formats</p> <p>ADASVISION-1298: Display Link - Progressive mode display</p> <p>ADASVISION-1300: Display Link - Video window positioning support</p> <p>ADASVISION-1304: Display Link - Display Multi instance support</p> <p>ADASVISION-1306: Display Link - HDMI display support</p> <p>ADASVISION-1307: Display Link - Support for standard display resolutions</p> <p>ADASVISION-1308: Display Link - support for custom resolutions</p> <p>ADASVISION-1309: Display Link - Blending support of Grpx and Video planes</p> <p>ADASVISION-1310: Display Link - Blending support for Video planes</p> <p>ADASVISION-1311: Display Link - Color keying support</p> <p>ADASVISION-1312: Display Link - Set back Ground Color of VENC</p> <p>ADASVISION-1317: Display Link - Transparency Color Key Selection support</p> <p>ADASVISION-1318: Display Link - VENC section</p> <p>ADASVISION-1324: multi sensors support</p> <p>ADASVISION-1325: support LVDS capture</p> <p>ADASVISION-1326: Support OV10640 Raw/Bayer sensors</p> <p>ADASVISION-1456: ISS capture - mode</p> <p>ADASVISION-1457: ISS capture - interface</p> <p>ADASVISION-1458: ISS capture - CSI2 mode</p> <p>ADASVISION-1459: ISS capture - resolution</p> <p>ADASVISION-1461: ISS capture - packing</p> <p>ADASVISION-1466: ISS multi-channel capture</p> <p>ADASVISION-1467: ISS M2M -ISP - GLBCE selection</p> <p>ADASVISION-1468: ISS M2M -ISP - resizer</p> <p>ADASVISION-1469: ISS M2M -ISP - output dataformat</p> <p>ADASVISION-1470: ISS M2M -ISP - input data format</p> <p>ADASVISION-1471: ISS M2M -ISP - NF</p> <p>ADASVISION-1472: ISS M2M -ISP - WDR modes</p> <p>ADASVISION-1473: ISS M2M -ISP - resizer</p> <p>ADASVISION-1474: ISS M2M -ISP multiple instance</p> <p>ADASVISION-1475: ISS M2M - H3A</p> <p>ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC selection</p> <p>ADASVISION-1478: ISS M2M (LDC + VTNF) - LDC data format</p> <p>ADASVISION-1479: ISS M2M (LDC + VTNF) - VTNF data format</p> <p>ADASVISION-1480: ISS M2M (LDC + VTNF) - LDC create time config</p> <p>ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config</p> <p>ADASVISION-1482: ISS M2M (LDC + VTNF) - general</p> <p>ADASVISION-1483: ISS M2M RSZ - resizer</p> <p>ADASVISION-1484: ISS M2M RSZ - output dataformat</p> <p>ADASVISION-1485: ISS M2M RSZ - input data format</p> <p>ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc)</p> <p>ADASVISION-1487: ISS M2M RSZ - multi-instance</p> <p>ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M</p> <p>ADASVISION-1489: ISS M2M RSZ - multi-CH</p> <p>ADASVISION-1579: low cost surround view with TDA3x</p> <p>ADASVISION-1606: Algo Link DeWarp for multiple channel LDC correction.</p> <p>ADASVISION-1621: ISS: Capture Link & M2M ISP : Support MIPI RAW 12 dataformat</p> <p>ADASVISION-1643: ISP Based SRV : Split LUT's</p> <p>ADASVISION-1644: ISP Based SRV: Configurable blend seam angle</p> <p>ADASVISION-1645: ISP Based SRV: Configurable blend seam start point</p> <p>ADASVISION-1647: ISP Based SRV: Compression of LUT's</p> <p>ADASVISION-1684: ISP Based SRV: Updated interface of Mesh Generation Tool</p> <p>ADASVISION-1685: ISP Based SRV: Parametric transition between view points</p> <p>ADASVISION-1686: ISP Based SRV: Adaptive bowl support on LDC Surroundview</p> <p>ADASVISION-1687: ISP Based SRV: Compression and reorganization of V2W Table(s)</p> <p>ADASVISION-1688: ISP Based SRV: Generating Car Box Edges/view</p> <p>ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px</p> <p>ADASVISION-1709: TDA3x SRV: Add multi camera harmonization</p> <p>ADASVISION-1786: SerDes cleanup for ISS sensor drivers</p>		

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Keywords:	tda3xx-evm tda3xx_rvp c_qualification
Execution Details	
Build	REL_3_5
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.			
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.	
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	
Execution type:	Manual		

<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	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
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_integration
Execution Details	
Build	REL_3_5
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_Frames			
<u>Summary:</u>			
ISS 3D SRV UC			
Input : IMI OV10640 / TIDA AR140 with 960 deserializer or OV10635 with 964 deserializer			
Output : HDMI 1080P			
<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			
#:	<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)	On selecting "1" RAW frame from channel 0 should be saved in DDR On selecting "2" DeWarp Output Frame should be saved in DDR	

	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
<u>Execution type:</u>	Manual	
<u>Estimated exec. duration (sec):</u>		
<u>Priority:</u>	Medium	
<u>Requirements</u>	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-1542: Algorithm Link Support (Framework and Skeleton portion) ADASVISION-1543: Algorithm Link Support for all CPU cores ADASVISION-1544: Algorithm Link Support Prioritization ADASVISION-1545: Algorithm Link Support Multiple instantiation ADASVISION-1546: Algorithm Link Support Multiple input and output queues ADASVISION-1547: Algorithm Link Support Multiple input channels ADASVISION-1548: Algorithm Link Support Out of order release of input and output buffers ADASVISION-1549: Algorithm Link Support Memory allocations ADASVISION-1550: Algorithm Link Support DSP subsystem DMA resource allocations ADASVISION-1551: Algorithm Link Support EVE subsystem DMA resource allocations ADASVISION-1552: Algorithm Link Support System DMA resource allocations ADASVISION-1553: Algorithm Link Support In place computation support ADASVISION-1554: Algorithm Link Support Non-In place computation support ADASVISION-1555: Algorithm Link Support Multiple Algos ADASVISION-1556: Algorithm Link Support Alg Configurations ADASVISION-889: 3D SRV on TDA3x " " Enhancements ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR	
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp	
Execution Details		
Build	REL_3_5	
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_960/964deser			
<u>Summary:</u>			
ISS 2D + 3D SRV UC			
Input : IMI OV10640 / TIDA AR140 / TIDA AR143 with 960/964 deserializer			
Output : HDMI 1080P			
<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			
<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	Capture Source should be OV10640 Sensor for SV - IMI (TDA3x ONLY) 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
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>Requirements</u>	<p>ADASVISION-1398: IPC between M4s ADASVISION-1399: IPC between DSPs ADASVISION-1402: IPC between M4 & DSP ADASVISION-1403: IPC between M4 & EVE ADASVISION-1405: IPC between DSP & EVE ADASVISION-1410: shall support link sendcmd across all cores ADASVISION-1466: ISS multi-channel capture 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-1474: ISS M2M -ISP multiple instance ADASVISION-1475: ISS M2M - H3A ADASVISION-1476: ISS M2M sub-frame ADASVISION-1483: ISS M2M RSZ - resizer ADASVISION-1484: ISS M2M RSZ - output dataformat ADASVISION-1485: ISS M2M RSZ - input data format ADASVISION-1487: ISS M2M RSZ - multi-instance ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M ADASVISION-1489: ISS M2M RSZ - multi-CH 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 ADASVISION-1493: Algorithm Link ISS 2A - multi-CH mode of operation for H3A for surround view cameras ADASVISION-1503: ESM support ADASVISION-1504: DAP MPU support ADASVISION-1518: Synchronization of frames across multiple channels ADASVISION-1519: duplication of output ADASVISION-1520: Merging of multiple outputs ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px ADASVISION-882: 2D+3D SRV on TDA3x</p>	
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_regression c_stress c_qualification c_stability m_iss m_algorithm	
Execution Details		
Build	REL_3_5	
Tester	x0246581	
<u>Execution Result:</u>	Passed	
<u>Execution Mode:</u>	Manual	
<u>Execution duration (sec):</u>		

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

<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) + RearView + Display" UC	Display must come up with 3D SRV output & Rear view camera output and no buffer drops should be observed	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1038: TDA3x 3D SRV: 3D + Rear view UC ADASVISION-1397: Rear Camera usecase ADASVISION-1518: Synchronization of frames across multiple channels 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 (NullSrc Link) ADASVISION-269: TDA3x: CMS & Rear Camera augmented reality visualization on rear view mirror ADASVISION-830: For all SRV - DSP load optimization using SIMD		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

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

#:	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	It throws error	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>			
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-1167: Error handling requirements ADASVISION-1526: Error handling ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR			
<u>Keywords:</u>		tda3xx-evm tda3xx_rvp	
<u>Execution Details</u>			
Build		REL_3_5	
Tester		x0246581	
<u>Execution Result:</u>		Passed	
<u>Execution Mode:</u>		Manual	
<u>Execution duration (sec):</u>			

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.

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

#:	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 Select Capture Source as	Capture Source should be	

	"OV10640 Sensor for SV - IMI (TDA3x ONLY)" or "AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY)" & Display Output as HDMI 1080P	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	
3	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>Requirements</u>	<p>ADASVISION-1036: TDA3x 3D SRV: 360 degree flyaround (Phase 1)</p> <p>ADASVISION-1037: TDA3x 3D SRV: Improve imaging for SRV with Improve AE stability & Integrate Photometric alignment</p> <p>ADASVISION-1068: TDA3x 3D SRV : Auto calculate number of slice parameters</p> <p>ADASVISION-1069: TDA3c 3D SRV: Lens type : Distortion table</p> <p>ADASVISION-1071: TDA3x 3D SRV : Boot time optimization</p> <p>ADASVISION-1466: ISS multi-channel capture</p> <p>ADASVISION-1467: ISS M2M -ISP - GLBCE selection</p> <p>ADASVISION-1468: ISS M2M -ISP - resizer</p> <p>ADASVISION-1469: ISS M2M -ISP - output dataformat</p> <p>ADASVISION-1470: ISS M2M -ISP - input data format</p> <p>ADASVISION-1472: ISS M2M -ISP - WDR modes</p> <p>ADASVISION-1473: ISS M2M -ISP - resizer</p> <p>ADASVISION-1474: ISS M2M -ISP multiple instance</p> <p>ADASVISION-1475: ISS M2M - H3A</p> <p>ADASVISION-1483: ISS M2M RSZ - resizer</p> <p>ADASVISION-1484: ISS M2M RSZ - output dataformat</p> <p>ADASVISION-1485: ISS M2M RSZ - input data format</p> <p>ADASVISION-1487: ISS M2M RSZ - multi-instance</p> <p>ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M</p> <p>ADASVISION-1489: ISS M2M RSZ - multi-CH</p> <p>ADASVISION-1579: low cost surround view with TDA3x</p> <p>ADASVISION-1606: Algo Link DeWarp for multiple channel LDC correction.</p> <p>ADASVISION-1621: ISS: Capture Link & M2M ISP : Support MIPI RAW 12 dataformat</p> <p>ADASVISION-1643: ISP Based SRV : Split LUT's</p> <p>ADASVISION-1644: ISP Based SRV: Configurable blend seam angle</p> <p>ADASVISION-1645: ISP Based SRV: Configurable blend seam start point</p> <p>ADASVISION-1647: ISP Based SRV: Compression of LUT's</p> <p>ADASVISION-1684: ISP Based SRV: Updated interface of Mesh Generation Tool</p> <p>ADASVISION-1685: ISP Based SRV: Parametric transition between view points</p> <p>ADASVISION-1686: ISP Based SRV: Adaptive bowl support on LDC Surroundview</p> <p>ADASVISION-1687: ISP Based SRV: Compression and reorganization of V2W Table(s)</p> <p>ADASVISION-1688: ISP Based SRV: Generating Car Box Edges/view</p> <p>ADASVISION-1715: [TDA3x 3D SRV]: Add support for Output Resolution change</p> <p>ADASVISION-1761: [TDA3x 3D SRV] Update Mesh tool for output resolution change</p> <p>ADASVISION-830: For all SRV - DSP load optimization using SIMD</p> <p>ADASVISION-889: 3D SRV on TDA3x "Enhancements</p> <p>ADASVISION-932: TDA3x 3D SRV on 128MB memory map</p> <p>ADASVISION-962: TDA3x 3D SRV: Enabling 2A and WDR</p>		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp c_qualification		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-343: ISS_3D_SRV_960/964deser_with_200_ViewPointsSummary:

ISS 3D SRV UC

Input : IMI OV10640 / TIDA AR140 / TIDA AR143 with 960/964 deserializer
 or OV10635 with 964 deserializer

Output : HDMI 1080P

Binaries: 1GB (DDR_MEM_1024M)

Preconditions:

Build binaries with DDR_MEM=DDR_MEM_1024M

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.	

Execution type: Automated

Estimated exec. duration (sec): 60.00

Priority: Medium

Requirements

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-1087: Support synchronization of camera in UB964

ADASVISION-1090: Update TI logo

ADASVISION-1257: AR0143 Sensor Support

ADASVISION-1295: Display Link support for various input data formats

ADASVISION-1298: Display Link - Progressive mode display

ADASVISION-1300: Display Link - Video window positioning support

ADASVISION-1304: Display Link - Display Multi instance support

ADASVISION-1306: Display Link - HDMI display support

ADASVISION-1307: Display Link - Support for standard display resolutions

ADASVISION-1308: Display Link - support for custom resolutions

ADASVISION-1309: Display Link - Blending support of Grpx and Video planes

ADASVISION-1310: Display Link - Blending support for Video planes

ADASVISION-1311: Display Link - Color keying support

ADASVISION-1312: Display Link - Set back Ground Color of VENC

ADASVISION-1317: Display Link - Transparency Color Key Selection support

ADASVISION-1318: Display Link - VENC section

ADASVISION-1324: multi sensors support

ADASVISION-1325: support LVDS capture

ADASVISION-1326: Support OV10640 Raw/Bayer sensors

ADASVISION-1456: ISS capture - mode

ADASVISION-1457: ISS capture - interface

ADASVISION-1458: ISS capture - CSI2 mode

ADASVISION-1459: ISS capture - resolution

ADASVISION-1461: ISS capture - packing

ADASVISION-1466: ISS multi-channel capture

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-1471: ISS M2M -ISP - NF
 ADASVISION-1472: ISS M2M -ISP - WDR modes
 ADASVISION-1473: ISS M2M -ISP - resizer
 ADASVISION-1474: ISS M2M -ISP multiple instance
 ADASVISION-1475: ISS M2M - H3A
 ADASVISION-1477: ISS M2M (LDC + VTNF) - LDC selection
 ADASVISION-1478: ISS M2M (LDC + VTNF) - LDC data format
 ADASVISION-1479: ISS M2M (LDC + VTNF) - VTNF data format
 ADASVISION-1480: ISS M2M (LDC + VTNF) - LDC create time config
 ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config
 ADASVISION-1482: ISS M2M (LDC + VTNF) - general
 ADASVISION-1483: ISS M2M RSZ - resizer
 ADASVISION-1484: ISS M2M RSZ - output dataformat
 ADASVISION-1485: ISS M2M RSZ - input data format
 ADASVISION-1486: ISS M2M RSZ - Multi scale (pyramid generation for PD/TSR etc)
 ADASVISION-1487: ISS M2M RSZ - multi-instance
 ADASVISION-1488: ISS M2M RSZ - multi-instance with ISP M2M
 ADASVISION-1489: ISS M2M RSZ - multi-CH
 ADASVISION-1579: low cost surround view with TDA3x
 ADASVISION-1606: Algo Link DeWarp for multiple channel LDC correction.
 ADASVISION-1621: ISS: Capture Link & M2M ISP : Support MIPI RAW 12 dataformat
 ADASVISION-1643: ISP Based SRV : Split LUT's
 ADASVISION-1644: ISP Based SRV: Configurable blend seam angle
 ADASVISION-1645: ISP Based SRV: Configurable blend seam start point
 ADASVISION-1647: ISP Based SRV: Compression of LUT's
 ADASVISION-1684: ISP Based SRV: Updated interface of Mesh Generation Tool
 ADASVISION-1685: ISP Based SRV: Parametric transition between view points
 ADASVISION-1686: ISP Based SRV: Adaptive bowl support on LDC Surroundview
 ADASVISION-1687: ISP Based SRV: Compression and reorganization of V2W Table(s)
 ADASVISION-1688: ISP Based SRV: Generating Car Box Edges/view
 ADASVISION-1701: AR143 (MARs) Camera and Fusion board support on TDA2Px
 ADASVISION-1709: TDA3x SRV: Add multi camera harmonization
 ADASVISION-1786: SerDes cleanup for ISS sensor drivers
 ADASVISION-1844: [TDA3x SRV] Support more View Points (~200) with 1GB memory map
 ADASVISION-1857: [TDA3x-RVP] Support 1GB memory map
 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_5
 Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

1.1.2.Test Suite : SRV_Calibration

Test Case VISIONSDK-137: SRV_Calibration_UC_auto_calibration			
<u>Summary:</u>			
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)			
<u>Preconditions:</u>			
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>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 8 Red color rectangle boxes (2 in each quadrant) should be visible and no buffer drops should be observed	
3	Select Auto Calibration	On selecting Auto calibration It will detect corners for all 4 cameras & generate	

		PERSMAT.BIN (in case of TDA2x/TDA2ex)	
		LUT.BIN (in case of TDA3x)	
4	Run any SRV UC & verify the output	SRV Output should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1762: SRV Auto calibration - auto selection of ROI for Surround View (1MB Vs 2MB) ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D ADASVISION-999: Performance: Complex algorithm should work on shadowed buffers		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp c_qualification		
Execution Details			
Build	REL_3_5		
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_calibration			
<u>Summary:</u>			
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)			
<u>Preconditions:</u>			
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)	Capture Source should be OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or	

	depending upon the hardware connected & Display Output as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	Display must come up with mosaic view of all 4 cameras and no buffer drops should be observe	
3	Select Manual Calibration & generate CALMAT	should be able to generate CALMAT.BIN	
4	Remove the card & refer "VisionSDK_UserGuide_3D_SurroundView_Manual_CalibTool.pdf" useguide to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	Should be able to generate PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x)	
5	Copy the PERSMAT.BIN (in case of TDA2x/TDA2ex) & LUT.BIN (in case of TDA3x) to MMC/SD card & insert into EVM & Run any SRV UC	SRV output should be proper	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-984: Calibration: Allow to pass a parameter where all the generated files get read from/written ADASVISION-999: Performance: Complex algorithm should work on shadowed buffers		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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

<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 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>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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

<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 "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

Requirements ADASVISION-1601: SD card file system support with VSDK

	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_5
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-141: SRV_Calibration_UC_auto_calibration_update_2D_PERSMAT	
<u>Summary:</u>	
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)	
<u>Preconditions:</u>	
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 "7" to Update 2D Pers Mat (after auto/manual calibration if required)	On selecting "7" 2D Pers Mat should be updated	
<u>Execution type:</u>		Manual	
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>		Medium	
<u>Requirements</u>		ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D	
<u>Keywords:</u>		tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp	
Execution Details			
Build		REL_3_5	
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			
<u>Summary:</u>			
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)			
<u>Preconditions:</u>			
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 shuld be OV10635 Sensor 720P30 or OV10635 Sensor for Mosaic Display - SAT0088/OV10635 (TDA2EX ONLY) or OV10640 Sensor for SV - IMI (TDA3x ONLY) or AR0140 Sensor for SV - TIDA00262 (TDA3x ONLY) depending upon the hardware connected & Display device as HDMI 1080P (TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)	
2	Run "SRV Calibration" UC	It throws error	

<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_5
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

Test Case VISIONSDK-143: SRV_Calibration_UC_auto_calibration_without_TDAXX_Folder

Summary:

SRV Calibration UC supported on TDA2x/TDA2ex/TDA3x

Input : OV10635 with 913/914 deserializer or

Imx290 with 913/914 deserializer or

OV10635 with 964 deserializer or

IMI OV10640 / TIDA AR140 with 960 deserializer

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

Preconditions:

In case of TDA2x/TDA2Ex:

Ensure TDA2x folder not present in SD card

Run SRV calibration UC to generate PERSMAT.BIN

In case of TDA3x:

Ensure TDA3x folder not present in SD card

Run SRV calibration UC to generate LUT.BIN

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

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

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

	(TDA2x/TDA2Ex/TDA3x), HDMI XGA TDM mode (TDA3x ONLY)		
2	Run "SRV Calibration" UC	It throws error	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-854: Support for handling region-of-interest input frame for 3DSRV & 2DSRV use-cases ADASVISION-883: Improved auto-calibration for 2D & 3D		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

1.1.3.Test Suite : FastBoot_SRV

Test Case VISIONSDK-255: FastBoot_ISS_3D_SRV_960/964deser			
<u>Summary:</u>			
ISS 3D SRV UC			
Input : IMI OV10640 with 960/964 deserializer			
Output : HDMI 1080P			
Binaries: 512MB			
<u>Preconditions:</u>			
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>Requirements</u>	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-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		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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			
<u>Summary:</u>			
Linear mode - basic ISS functionality test			
ISS Single channle Capture UC with AR0143			
Input : AR0143 sensor			
Output : HDMI 1080P			
<u>Preconditions:</u>			
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>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-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>	tda3xx-evm c_stress c_qualification c_stability		
Execution Details			
Build	REL_3_5		
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			
<u>Summary:</u>			
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 should 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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	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-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>	tda3xx-evm c_regression c_performance c_qualification m_iss		
Execution Details			
Build	REL_3_5		
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 should 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>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
<u>Keywords:</u>	tda3xx-evm
Execution Details	
Build	REL_3_5
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_WDR

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 = 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>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
<u>Keywords:</u>	tda3xx-evm c_stress c_stability
Execution Details	
Build	REL_3_5
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_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

<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	
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>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		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			
Build	REL_3_5		
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>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		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			
Build	REL_3_5		
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

<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 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>Requirements</u>	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		
<u>Keywords:</u>	tda3xx-evm		
Execution Details			

Build	REL_3_5
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_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

<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 = 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-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 - 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 - 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_5

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-340: ISS_Capture_AR143_2PASS_WDR_LDCSummary:

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	

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

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 - 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_5

Tester: x0246581

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

<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 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: AutomatedEstimated exec. duration (sec): 60.00Priority: MediumRequirements

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 - 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-1479: ISS M2M (LDC + VTNF) - VTNF data format
 ADASVISION-1480: ISS M2M (LDC + VTNF) - LDC create time config
 ADASVISION-1481: ISS M2M (LDC + VTNF) - VTNF create time config
 ADASVISION-1482: ISS M2M (LDC + VTNF) - general
 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-evmExecution Details

Build: REL_3_5

Tester: x0246581

Execution Result: **Passed**Execution Mode: **Manual**Execution duration (sec):**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>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
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	
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 (sec):</u>	60.00		
<u>Priority:</u>	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-1511: ISS tuning tool ADASVISION-1587: TDA3x ISS UC - SDK links and Utils to support static memory allocation ADASVISION-1600: ISS - add various tap-points for dumping the frames ADASVISION-1604: Support sensor frame work ADASVISION-1671: APIs to read UB960/964/954/953 status registers and to enable test pattern		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_5		
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			
<u>Summary:</u> Print PRCM Statistics Dpll Status			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "1" for Dpll Status	On selecting "1" should print DPLL Statistics	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1562: power managemant - Profilling Support for Actual CPU idle time ADASVISION-1563: Vision SDK Print Statistics for PM		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-213: Print_PRCM_Statistics_Temperature			
<u>Summary:</u> Print PRCM Statistics Temperature			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "2" for Temperature	On selecting "2" should print current min & max temperature on all cores	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature		
<u>Keywords:</u>	tda2xx-evm		

	tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_5
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

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "3" for Voltage	On selecting "3" should print voltage usage	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

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</u>	60.00		

<u>(sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_5
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>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_5
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_Data			
<u>Summary:</u> Print PRCM Statistics Prcm Register Data			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "7" for Prcm Register Data	On selecting "6" should print Prcm Register Data of all POWER DOMAIN Reg. Address & Value	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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_Consumption			
<u>Summary:</u> Print PRCM Statistics Power Consumption Supported only on TDA2x			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM	On selecting "8" should print Power	

	Statistics Press "8" for Power Consumption	Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
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_Stats			
<u>Summary:</u> Print PRCM Statistics All PRCM Stats			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Go to System Settings -> Print PRCM Statistics Press "9" for All PRCM Stats	On selecting "9" should print All PRCM Stats Dpll Status Temperature Voltage Module Power State CPU frequency Peripherals Frequency Prcm register Data Power Consumption	
<u>Execution type:</u>	Automated		
<u>Estimated exec. duration (sec):</u>	60.00		
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1536: System debug logs ADASVISION-1537: Statistics logs ADASVISION-1538: latency measurement ADASVISION-1539: system loading ADASVISION-1540: DDR BW measurement ADASVISION-1541: Global timestamp ADASVISION-1561: power managemant Software Enhancements and Advanced Features for TDA2x/TDA3x/TDA2Ex ADASVISION-1563: Vision SDK Print Statistics for PM ADASVISION-1564: PM - VSDKPRINTSTATS: Print Module Frequencies ADASVISION-1565: PM - VSDKPRINTSTATS: Print Module Power State ADASVISION-1566: PM - VSDKPRINTSTATS: Print the Temperature ADASVISION-1567: PM - VSDKPRINTSTATS: Print the Voltage		
<u>Keywords:</u>	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry		

	tda2px-evm tda3xx_rvp
Execution Details	
Build	REL_3_5
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			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	<ol style="list-style-type: none"> 1. Add all vision SDK test cases to test link, Map with requirements from JIRA 2. Create a test plan & under that create a build 3. Add test cases to execute for that particular build 4. Trigger all automated test cases from test link 5. Execute remaining manual test cases from test link 6. Generate test report 	User should be able to trigger all automated test cases from test link & also able to update test result for manula test cases	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-369: Deploy TestLink for VSDK test-case management and automation		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_5		
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			
<u>Summary:</u> restructuring directory structure for VSDk 3.0 release			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Restructure directory structure for VSDK into separate Folder as below link_fw Make System (Common for FW & all Apps modules) sample_app apps algorithms docs	Directory structure should be as stated	

	testsuite
<u>Execution type:</u>	Manual
<u>Estimated exec. duration (sec):</u>	
<u>Priority:</u>	Medium
<u>Requirements</u>	ADASVISION-1205: VSDK 3.0 restructuring ADASVISION-929: SDK FW and App separation
<u>Keywords:</u>	None
Execution Details	
Build	REL_3_5
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			
<u>Summary:</u>			
Radar Capture Null UC			
Input : AR12			
Output : Null			
Supported on : TDA3x/TDA3x ALPS/TDA2x Cascade			
<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/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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1441: AR12xx sensor capture ADASVISION-1445: RADAR processing performance benchmarking ADASVISION-992: Radar Data Processing Usecase using AR12xx Sensor Data input		
<u>Keywords:</u>	c_regression c_qualification tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

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>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK 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 EVE ADASVISION-992: Radar Data Processing Usecase using AR12xx Sensor Data input		
<u>Keywords:</u>	c_stress c_qualification c_stability tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_5		
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			
<u>Summary:</u>			
Null Source Capture(SD card) Radar FFT on EVE1 Null UC			
Input : AR12			
Output : Null			
<u>Preconditions:</u>			
Input files present in SD card			
Debug prints will be in			
UART1 for TDA2x & UART2 for TDA3x			
<u>#:</u>	<u>Step actions:</u>	<u>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>Requirements</u>	ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1255: Radar Advance frame configuration & dynamic configuration support ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1442: RADAR algorithm porting on DSP Alg link ADASVISION-1445: RADAR processing performance benchmarking ADASVISION-1570: power mamagement - CPU IDLE ADASVISION-1571: power mamagement - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power mamagement - CPUIDLE: IPU Core Idle ADASVISION-1573: power mamagement - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power mamagement - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-1699: [RADAR] Propagate each output channel info properly in RadarProcess Link Alg Plugin		

	ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-989: Radar data read from SD card ADASVISION-990: Radar Data output to SD Card ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input
Keywords:	tda2xx-evm tda3xx-evm
Execution Details	
Build	REL_3_5
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

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	

Execution type: Manual

Estimated exec. duration (sec):

Priority: Medium

Requirements

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

Keywords: tda2xx-evm
tda3xx-evm

Execution Details

Build REL_3_5

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-156: NullSrc_Capture_Radar_FFT_EVE1_Null_Read_Frames_NW			
<u>Summary:</u> Null Source Capture(Network) Radar FFT on EVE1 Null UC Input : AR12 Output : Null			
<u>Preconditions:</u> 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	
4	using network_ctrl tool send a diiferent parameter set	should be able to update with new parameter set	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1699: [RADAR] Propagate each output channel info properly in RadarProcess Link Alg Plugin ADASVISION-1919: Radar: Allow accepting mmwave messages from Network to translate to AWR1243 SPI commands - Base Infr ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-991: Radar data input and output via Ethernet		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-157: NullSrc_Capture_Radar_FFT_EVE1_Null_Write_Frames_NW			
<u>Summary:</u> Null Source Capture(Network) Radar FFT on EVE1 Null UC Input : AR12 Output : Null			
<u>Preconditions:</u> 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	Run network_rx to dump files	Should be able to dump frmaes	
4	Using network_ctrl tool send a different parameter set	should be able to update with new parameter set	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1269: [RADAR] Integrate Beam Forming Algorithm in SDK ADASVISION-1919: Radar: Allow accepting mmwave messages from Network to translate to AWR1243 SPI commands - Base Infr ADASVISION-985: Radar Processing Alg Plugin ADASVISION-986: Radar Processing Alg Plugin Flexibility ADASVISION-987: Radar Processing Single Alg Plugin on DSP and EVE ADASVISION-991: Radar data input and output via Ethernet ADASVISION-993: Radar Data Processing Usecase using File Sensor Data input		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm		
Execution Details			
Build	REL_3_5		
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			
<u>Summary:</u>			
Radar Capture Radar Object Detect on EVE1 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 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>Requirements</u>	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		
<u>Keywords:</u>	tda3xx-alps tda3xx-AR12-Booster		
Execution Details			
Build	REL_3_5		

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_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

#:	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

Requirements

- ADASVISION-1255: Radar Advance frame configuration & dynamic configuration support
- ADASVISION-1268: [RADAR] Integrate Peak Detection EVE Algorithm in SDK
- 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
- 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_5

Tester x0246581

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (sec):

Test Case VISIONSDK-243: Radar_Flash_AR12_Firmware

Summary:

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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1106: [RADAR] Add support for ALPS Hardware ADASVISION-1107: [RADAR] Support for Flashing firmware to AR12 flash on ALPS		
<u>Keywords:</u>	tda3xx-alps		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-313: Radar_AR12_Multi_Capture_Radar_FFT_EVE1_Display

Summary:

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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1255: Radar Advance frame configuration & dynamic configuration support ADASVISION-1268: [RADAR] Integrate Peak Detection EVE Algorithm in SDK 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-1873: 4 x AWR1243 Satellite Demo ADASVISION-1875: Satellite radar chip support in Radar 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-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_5
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 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		
Requirements	ADASVISION-1255: Radar Advance frame configuration & dynamic configuration support ADASVISION-1268: [RADAR] Integrate Peak Detection EVE Algorithm in SDK 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-1677: [RADAR] Dynamic chirp configuration and thorough dynamic configuration testing 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_5
Tester	x0246581
<u>Execution Result:</u>	Passed
<u>Execution Mode:</u>	Manual
<u>Execution duration (sec):</u>	

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_cmpnents (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 tda2xx_evm_bios_all	
2	Modify Rules.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1080: TDA2Px (J6+) Support with VSDK ADASVISION-1081: J6 Entry support for VSDK ADASVISION-1095: Platform support & maintainability ADASVISION-1167: Error handling requirements ADASVISION-1348: AppImage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory maps ADASVISION-1352: Multiple platforms support ADASVISION-1354: Build profile selection ADASVISION-1355: 256MB memory map ADASVISION-1356: 1GB memory map ADASVISION-1357: 128MB memory map ADASVISION-1358: 512MB memory map ADASVISION-1359: MMU configs of different CPUs ADASVISION-1360: Platform selection ADASVISION-1361: Selective builds for following links - VPE, ISS ADASVISION-1408: shall support Bios only build ADASVISION-1409: shall support bios + Liux on A15 ADASVISION-1529: Multiple heap support ADASVISION-1530: Cache configuration ADASVISION-1531: Memory config ADASVISION-1532: External Memory allocation ADASVISION-1533: Internal memory allocation from OCMC ADASVISION-1534: Internal memory allocation from DSP L2 SRAM at create time only, no run time allocation and de-alloc ADASVISION-1535: Internal memory allocation from DSP L1 SRAM ADASVISION-1570: power management - CPU IDLE ADASVISION-1571: power management - CPUIDLE: MPU Core 0/1 Idle ADASVISION-1572: power management - CPUIDLE: IPU Core Idle ADASVISION-1573: power management - CPUIDLE: DSP 1/2 Core Idle ADASVISION-1574: power management - CPUIDLE: EVE 1/2/3/4 Core Idle ADASVISION-1575: PM - CPUIDLE: Vision SDK Integration of CPU IDLE ADASVISION-1580: Support for TDA2Ex (J6-Eco) in vision SDK ADASVISION-1586: Static memory allocation in Vision SDK and its component		

	ADASVISION-1633: Migrate DSP CGT version of VSDK to use CGT 8.2.4 ADASVISION-1652: TDA2EX ETH SRV platform board Support with VSDK ADASVISION-1751: Support in the makefile to allow for file specific compile options ADASVISION-1857: [TDA3x-RVP] Support 1GB memory map ADASVISION-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	<ul style="list-style-type: none"> • BIOS Different Build Config : build_vsdk.sh • build_vsdk.sh
Execution Details	
Build	REL_3_5
Tester	x0246581
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (sec):	

Test Case VISIONSDK-278: VSDK_KW_build			
Summary:			
VSDK Klocwork Build			
Preconditions:			
Jenkin Node is up & running			
#:	Step actions:	Expected Results:	Execution 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 code checker Klockwork ADASVISION-1517: Static code checker MISRA-C ADASVISION-1525: Follow coding guidelines		
Keywords:	tda2xx-evm tda2ex-evm tda3xx-evm tda2ex-entry tda2px-evm		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
Execution Result:	Passed		
Execution Mode:	Manual		
Execution duration (sec):			

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)			
#:	Step actions:	Expected Results:	Execution Status:
1	Navigate to (radar_install_path)/vision_sdk/build & run make -s showconfig	Should display config for tda3xx_evm_bios_radar	
2	Check default config	By default all IPU1_0, IPU1_1, DSP1, EVE1 are enabled Memory should be 128MB NDK should be disabled & A15_TARGET_OS=Bios	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1108: [RADAR] Support for 128 MB build by default ADASVISION-1348: Appimage generation		
<u>Keywords:</u>	tda3xx-evm c_qualification		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-280: Radar_BIOS_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	Should display config for	

	(vsdk_install_path)/vision_sdk/build & run make -s showconfig	tda3xx_evm_bios_radar	
2	Modify Rules.mk file to other available MAKECONFIG & run make -s showconfig	Should display config for MAKECONFIG selected	
3	run make -s -j depend & then make -s -j	Should build binaries without any error	
4	run make -s appimage	should create Appimage	
5	run make -s sbl	Should create SBL	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1106: [RADAR] Add support for ALPS Hardware ADASVISION-1108: [RADAR] Support for 128 MB build by default ADASVISION-1115: [RADAR] Support for build support and file based capture read process write ADASVISION-1348: Applmage generation ADASVISION-1350: CPU selection ADASVISION-1351: Multiple Memory maps ADASVISION-1352: Multiple platforms support ADASVISION-1354: Build profile selection ADASVISION-1359: MMU configs of different CPUs ADASVISION-1360: Platform selection ADASVISION-1755: [RADAR] Add support for TDA2px EVM ADASVISION-1853: [RADAR] VSDK to support TDA2x cascade radar		
<u>Keywords:</u>	tda2xx-evm tda3xx-evm tda3xx_rvp tda3xx-alps tda3xx-AR12-Booster c_integration		
<u>Attached files</u>	<ul style="list-style-type: none"> • Radar Different Build Config : build_radar.sh • build_radar.sh 		
Execution Details			
Build	REL_3_5		
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			
#:	Step actions:	Expected Results:	Execution 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) & executed in testing phase	Tracebility 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 pain, test strategy docs for release are all available in clearcase	All updated version of docs should be available in clearcase	
4	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
5	Check for all docs available in vision_sdk/docs folder	All updated docs for current release should be available	
6	Check all links in the "index.html" Remove unwanted links	All links in the "index.html" should work properly	
7	Check all links in the "index.html" Remove unwanted links	All links in the "index.html" should work properly	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1094: Software release process ADASVISION-1168: SW quality requirements ADASVISION-1513: Release process ADASVISION-1528: Product requirements ADASVISION-1672: [Radar] Add Radar System planner to the Release Package ADASVISION-1675: Processor SDK Vision ti.com landing page - clean-up ADASVISION-1690: Process: Update Software Integration and Test Strategy document ADASVISION-1752: [Radar] Add Radar System planner to the Release Package ADASVISION-875: Develop a How to Debug best practices document, that outlines how to rapidly load binaries, restart		
<u>Keywords:</u>	None		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-246: VSDK_pacckage_creation_and_installation

Summary:

VSDK package creation & installation on windows & linux machine			
<u>Preconditions:</u>			
VSDK RC package installed & tested			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
3	Install on Linux machine Check for all customer collaterals & Build with default config	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc Build should be success	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1096: packaging and installation ADASVISION-1512: Single installer for vision SDK ADASVISION-1514: Customer collaterals		
<u>Keywords:</u>	c_qualification		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

Test Case VISIONSDK-247: Radar_package_creation_and_installation			
<u>Summary:</u>			
Radar package creation & installation on windows & linux machine			
<u>Preconditions:</u>			
Radar RC package installed & tested			
<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution Status:</u>
1	Modify MPI files to pick correct ti_components Modify InstallJammer Environment script Trigger Jenking project for packaging	Windows & Linux installer should be created	
2	Install on windows machine Check for all customer collaterals	Installation should be success Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc	

	& Build with default config	Build should be success	
3	Install on Linux machine	Installation should be success	
	Check for all customer collaterals	Release package should include all customer collaterals such as user guide, data sheet, Release notes, Test reports, Developer guide etc	
	& Build with default config	Build should be success	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>Requirements</u>	ADASVISION-1096: packaging and installation ADASVISION-1514: Customer collaterals ADASVISION-917: Separate packaging for Radar SDKs		
<u>Keywords:</u>	c_qualification		
Execution Details			
Build	REL_3_5		
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	Discoonnect CCS & Follow UG to set SYSBOOT PIN for QSPI Boot	SYSBOOT PIN should be for QSPI Boot	
4	Boot EVM	EVM should boot with binaries & Display Main Menu	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	Medium		
<u>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_5		
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			
<u>Summary:</u> Load Binaries using QSPI SD supported only on TDA3x/RVP			
<u>Preconditions:</u> 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	
<u>Execution type:</u>	Manual		
<u>Estimated exec. duration (sec):</u>			
<u>Priority:</u>	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		
<u>Keywords:</u>	tda3xx-evm tda3xx_rvp		
Execution Details			
Build	REL_3_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			

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>Requirements</u>	None		
<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_5		
Tester	x0246581		
<u>Execution Result:</u>	Passed		
<u>Execution Mode:</u>	Manual		
<u>Execution duration (sec):</u>			