## DekTec SDK REVISION HISTORY







## **DekTec SDK Revision History**

SDK version Feb 2021		
Versions	DTAPI: Drivers: DtapiService:	v5.43.2.149 Dta v4.28.1.271, DtPcie v1.11.1.263 DtaNw v3.5.11.42, Dtu v4.14.0.85 v3.8.4.91
Changes	<ul> <li>DTA-2131: II</li> <li>DTA-2139C:</li> <li>DTA-2139C:</li> <li>DTA-2172, 2</li> <li>DTA-2172, 2</li> <li>Matrix API: UDT_FRMSTAT</li> </ul> Linux only bug for the properties of the pro	_

SDK version Nov 2020		
Versions	DTAPI: Drivers: DtapiService:	v5.43.0.147 Dta v4.28.1.271, DtPcie v1.11.0.262, DtaNw v3.5.11.42, Dtu v4.14.0.85 v3.8.3.90
Changes	<ul> <li>Matrix API: S</li> <li>Bug fixes:</li> <li>Matrix API: Ir</li> <li>Local NIC bir</li> <li>Improved TS (some codec</li> <li>Linux only bug fixed</li> </ul>	DTU-315: Support for ATSC3.0 STLTP (Studio-to-Transmitter Link Transport Protocol) upport for encoding and decoding of digital vertical interval time code (D-VITC)  mprovement of default line numbers for Video Index embedding and de-embedding trate calculation was inaccurate due to March 2020 SDK changes over IP (RTP) handling for streams that are not fully compliant with SMTPE spec 2022 is generate non-monotonic timestamps like seen for FFmpeg HEVC)  fixes:  river did not compile for Debian Linux v2.6.32-5

SDK version Aug 2020		
Versions	DTAPI: v5.42.0.146 Drivers: Dta v4.28.0.270, DtPcie v1.10.0.257 DtaNw v3.5.11.42, Dtu v4.14.0.85 DtapiService: v3.8.2.89	
Changes	New features:  • Support for DTA-2178 Octal 12G-SDI/ASI Ports with Genlock for PCle  • Support for DTA-2174B/2178 quadrant (SMPTE-425-5 Annex B) quad-link 4K  • Support for SD-SDI 525 with 508 active video line and 625 with 608 active video lines (SMPTE RP 202-2000)  • DtDevice::GetGenlockState() function overload added to also return the detected video standard	
	Bug fixes:  • Pictures per second in DtVidStdInfo.m_Pps was incorrectly calculated  • DTA-2174B: Odd and even lines from a SMPTE 425-5 quad-link input were swapped	



SDK versio	n July 2020	
Versions	DTAPI: Drivers: DtapiService:	v5.41.1.144 Dta v4.28.0.270, DtPcie v1.9.2.254 DtaNw v3.5.11.42, Dtu v4.14.0.85 v3.8.1.88
Changes	New features:	DTU-315: Support for Digital Radio Mondial (DRM/DRM+)  3 frames were not handled correctly in DTAPI_RXMODE_STL3 mode when padding bits  Added DTAPI_STAT_FREQ_SHIFT and DTAPI_STAT_SAMPRATE_OFFSET statistics  Optimized calibration of the RF level measurement  oubly buffered output was not working for firmware version 6  175, 2174B, 2178-ASI: ASI output performance improvement  175, 2174B, 2178-ASI: ASI output returned a too high load  SI: Driver did sometimes failed to load (with generic power failure error)  ges:  art for GCC5.1 ABI=0 to fix Debian Stretch using static stdc++ library issues  Read() function performance improvement for a 24-core CPU

SDK version May 2020		
Versions	DTAPI: Drivers: DtapiService:	v5.40.0.141 Dta v4.27.8.269, DtPcie v1.9.0.250 DtaNw v3.5.11.42, Dtu v4.13.7.84 v3.8.0.87
Changes	Support for D  Bug fixes:	TA-2178-ASI Octal Bidirectional ASI Ports TA-2139C 12x ATSC T/T2 ISDB-T QAM Receiver  V210 pixel format with an alignment of -1 fix of March2020 SDK was not working for
	Drivers suppo     DtaNw driver	ort added for Linux kernel v5.6 ort added for CentOS 8.1 support added for Fedora 31 (kernel 5.5.8) -2178-ASI and DTA-2139C requires Visual Studio 2013 or higher and the 64 bit DtPcie

SDK version March 2020		
Versions	DTAPI: v5.39.0.138 Drivers: Dta v4.27.7.266, DtPcie v1.7.0.153 DtaNw v3.5.10.41, Dtu v4.13.6.83 DtapiService: v3.7.2.86	
Changes	New features:  • DTA-2174B: Support for 12G and quad link 4K (firmware v1 package required)	
	Bug fixes:  • DTA-2139B: Improvement for potential tuning conflict resulting in an error or DtapiService crash  • DTA-2174B: V210 pixel format with 720p/1080p and an alignment of -1 was not working	
	Support for DTA-2174B requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed	



SDK version February 2020		
Versions	DTAPI: v5.38.0.136 Drivers: Dta v4.27.6.265, DtPcie v1.6.0.149 DtaNw v3.5.10.41, Dtu v4.13.6.83 DtapiService: v3.7.1.84	
Changes	New features:  • DTA-2172/74B: Support for per port pixel offset, relative to a Genlock reference	
	Bug fixes:  • DTA-2132: Improved locking for specific symbol rates  • DTA-2174/79/95: 3G level B format reception was not working due to a Jan2020 SDK change	
	Support for DTA-2174B requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed	

SDK version	n January 2020		
Versions	DTAPI: v5.37.0.134 Drivers: Dta v4.27.5.264, DtPcie v1.5.0.128 DtaNw v3.5.10.41, Dtu v4.13.6.83 DtapiService: v3.7.0.83		
Changes	New features:  • Support for DTA-2174B Quad 3G-SDI Ports for PCIe (variant 1 firmware)  • DTA-2132: Auto symbol rate and fast blind scan support  Linux only features:		
	<ul> <li>Support for 32 bit DtPcie driver</li> <li>Bug fixes:</li> <li>Matrix API: Improved efficiency of YUV422P2_16B to UYVY422_10B conversion</li> <li>Synchronized DTAPI .NET with DTAPI, added amongst others ATSC3.0 modulation</li> <li>DTA-2115/DTU-315: Corrected Nov2019 fix for ATSC3.0 ALP packets larger than 4096 bytes</li> <li>DTA-2132: Low SNR and lock issue could occur</li> <li>DTA-2132: Invalid statistics could have been returned</li> <li>DTA-2152: Possible SDI lock issue was seen</li> <li>DTA-2172/75: DtDevice::GetRefClkCnt did return DTAPI_E_NOT_SUPPORTED</li> <li>DTA-2274B: Genlock for the 3G-ports fixed</li> </ul> Linux only bug fixes:		
	<ul> <li>Linux drivers did not build on Ubuntu 19.10</li> <li>DtPcie driver did report IOMMU errors and no data was received for some server configuration</li> <li>Support for DTA-2174B requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed Visual Studio 2008 and Visual Studio 2010 DTAPI libraries are no longer distributed</li> </ul>		



SDK version	November 2019
Versions	DTAPI: v5.36.3.130 Drivers: Dta v4.27.4.262, DtPcie v1.4.0.111, DtaNw v3.5.10.41, Dtu v4.13.6.83 DtapiService: v3.6.1.82
Changes	New features:  Support for DTA-2274B 12G-SDI and Triply-Buffered 3G-SDI Output for PCle  Support for Visual Studio 2019  Matrix API: SetloConfig option to enable/disable automatic black frames insertion  DTA-2132: Improved tuning configuration for IQ port  DTA-2137C: Improved power level calibration  DTA-2172/75: Added DtDevice::SetTxClockOffset() for precise control of the transmit clock
	<ul> <li>Bug fixes:</li> <li>DTAPI classes returned unclear error codes when using an incompatible DtPcie driver</li> <li>DtOutpChannel did repeat the last few SDI frames when an underflow occurred but should repeat the last frame only</li> <li>DTU-351: Disabled auto correction of errors (CRC checksum) in SDI input signal</li> <li>DTA-2115/DTU-315: ATSC3.0 ALP packets larger than 4096 bytes were not supported</li> <li>DTA-2131: Another process could stop main data processing (seen using DtInfo and StreamXpert)</li> <li>DTA-2132: Data reception was not possible without explicitly setting Rx-Mode using SetRxMode()</li> <li>DTA-2172: Missing audio samples in 3G SDI level B output</li> <li>DTA-2172: DtPcie driver didn't update after installing DtPcie installer v1.3.0</li> <li>DTA-2172/75 ASI-input channel occasionally returned an invalid timestamp</li> <li>DTA-2172/75 4:2:0 video processed by the Matrix API had jagged edges in the SDI output</li> <li>DTA-2195: SetRowConfig did fail when more than one VPID overrule was configured for a 4k signal</li> <li>Linux only bug fixes:</li> <li>DTA-2175: Outputting of data was stopped when a child process was forked from within the process controlling the DTA-2175</li> </ul>
	Support for DTA-2274B requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed

SDK version	on July 2019		
Versions	DTAPI: Drivers: DtapiService:	v5.35.0.124 Dta v4.27.3.259, DtPcie v1.3.0.72, DtaNw v3.5.10.41, Dtu v4.13.5.82 v3.6.0.81	
Changes	New features:  • Support for DTA-2132 High-End Satellite Receiver  • Matrix API: Support to receive/transmit raw 4k formats  • DTAPINET now supports DtPcie cards (DTA-2132, DTA-2139B, DTA-2172 and DTA-217  • DTA-2115B: Support for the 2 types of noise generators (requires firmware v2)  • DTA-2131: Support for larger ATSC sample rate offsets  Bug fixes:		
	<ul> <li>NicInpChannel methods ClearFlags() and GetFlags() were missing</li> <li>Modulator cards: noise generation was not working for IQ-direct mode</li> <li>DTA-2131: STMP2 RX-mode was missing</li> <li>DTA-2131: AdvDemod::OpenStream() function returned unclear error on no license</li> <li>DTA-2131: Improved ATSC 3.0 demodulator for adjacent channel interference</li> <li>DTA-2136/39: tuner offset for possible lock delay was accidentally removed in SDK Jan2019 release</li> <li>DTA-2175: Failsafe functions were not available</li> </ul>		
	···	features: rt for linux kernel v5 A-2132 requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed	



SDK version	May2019
Versions	DTAPI: v5.34.0.120 Drivers: Dta v4.27.2.258, DtPcie v1.2.0.66 DtaNw v3.5.10.41, Dtu v4.13.4.81 DtapiService: v3.5.2.79
Changes	DtapiService: v3.5.2.79  New features: Support for DTA-2172 Dual 3G-SDI/ASI Ports for PCIe DTA-2131: Support for constellations and transport stream packets with timestamps DTA-2175: Support for Transmit on timestamp DTAPI_TXMODE_TXONTIME  Bug fixes: Matrix API: DtMxFrame::m_Video::m_Planes::m_WidthInSymbols did report unscaled width DTA-2131: Nominal bitrate instead of actual bitrate was reported DTA-2136/2139: For some frequency changes a long lock delay occurred DTA-2136/2139: Bad packet count was very large after a tune action DTA-2137: Inserted dummy frame in STL3FULL mode were invalid. DTA-2139B/2175: DtPcie driver did not support Windows standby condition DTA-2139B: InputChannel GetStatus did not return DTAPI_PCKSIZE_188 DTA-2139B: GetFlags returned an incorrect latched sync error DTA-2139B: DTAPI_E_INVALID_LEVEL was reported incorrectly for DTAPI_STAT_RFLVL_CHAN DTA-2152 disabling SMPTE-352 descriptor insertion did not work DTA-2160/62: DTAPI_E_INVALID_IP_ADDR was reported on broadcast address configuration DTA-2174/2195: DtapiVidStd2loStd was missing support for DTAPI_VIDSTD_2160P50B DTA-2175: The video configured for NV12 (=DT_PXFMT_YUV420P2_8B) was corrupted
	<ul> <li>DTA-2175: 8-bit SDI file format playout was not received by some receivers</li> <li>DTA-2175: CPU did require SSE4.1support, now minimum requirement is SSE3.0</li> <li>DTA-2195: DtAvOutput::GetHdmiStatus could report old values</li> <li>Linux only bug fixes:</li> <li>DtapiService connection errors did occur after a long time</li> <li>GCC5.1 DTAPI binaries were not correctly build</li> </ul>
	Support for DTA-2172 requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed

SDK version Feb2019		
Versions	DTAPI: Drivers: DtapiService:	v5.33.0.117 Dta v4.27.1.257, DtPcie v1.1.0.59 DtaNw v3.5.10.41, Dtu v4.13.4.81 v3.5.1.77
Changes	New features:  • Support for E  Bug fixes:  • DtapiService  • DTA-2131: A  • DTU-315: D  Linux only bug f  • DTA-2136 A	OTA-2139B Twelve-Channel Cable/Terrestrial Receiver for PCle  crash was seen on older PC's that did not support AVX instruction set  ATSC stream with long echoes was not received  TAPI_E_INVALID_LEVEL was reported when Output Level was configured during playout  fixes:  ttachToPort did hang in some cases  162 DtaNw driver did not build on Linux kernel >=v4.20
	Support for DTA driver installe	A-2175 and DTA-2139B requires Visual Studio 2013 or higher and the new 64 bit DtPcie



SDK version	Jan2019	
Versions	DTAPI: Drivers: DtapiService:	v5.32.0.115 Dta v4.27.0.256, DtPcie v1.0.9.55 DtaNw v3.5.9.40, Dtu v4.13.3.80 v3.5.0.75
Changes	<ul><li>DTA-2115B/I</li><li>DTA-2131: A</li><li>DTA-2131: A</li></ul>	TA-2175 HD-SDI/ASI Input+Output with Relay Bypass for PCIe DTU-315: option to (re)set the ATSC 3.0 Time Information TSC 3.0 L1B and L1D constellation support TSC 3.0 output of raw BB-frames support P: Quad Link (DTAPI_CAP_QUADLINK) capability to simplify configuration of 4K
	<ul> <li>Unexpected E</li> <li>SMPTE-352 d</li> <li>DTU-245: Dtl</li> <li>DTU-315: DT</li> <li>DTU-315: DT</li> <li>DTA-2115B/E</li> <li>DTA-2115B:</li> <li>DTA-2152: D</li> <li>DTA-2152: D</li> <li>DTA-2182: D</li> </ul>	OTAPI_NOT_SUPPORTED on SetModControl() was reported escriptor insertion was not disabled when using DtOutputChannel for SDI HD cards InpChannel::Read() junk bytes were seen at start of the buffer SAPI_E_INVALID_LEVEL was reported when Output Level was configured during playout SAPI_TX_DMA_UFL was sometimes reported for DVB-S2X/ISDB-S3 DTU-315: MISO signal was not correct for ATSC3.0 DTU-315: no error code on SetModPars() containing an ATSC 3.0 PLP collision SFN TOO_LATE error was seen at specific sample rates oubly Buffered configuration did not work tapiService communication error did occur resulting in no license points available ne doubling on 4K output was seen for DT_PXFMT_YUV422P_16B
	support for la	GCC5.1 DTAPI binaries are now distributed; adding full C++11 support and better test distributions
		.8.5 or higher is required st boards (DTA-2175/DTA-2139B) requires Visual Studio 2013 or higher and the new 64 ver installed



SDK version July2018		
Versions	DTAPI: Drivers: DtapiService:	v5.31.0.109 Dta v4.26.4.253, DtaNw v3.5.9.40, Dtu v4.13.2.78 v3.4.1.72
Changes	Bug fixes:  • DTA-2160: id  Linux only bug fi  • DTA-2160/62	2: DtaNw build error for CentOs 7.5
	Visual Studio 20	008 and Visual Studio 2010 support will be discontinued from November 1th 2018

SDK versio	n May2018		
Versions	DTAPI: v5.30.0.108 Drivers: Dta v4.26.2.251, DtaNw v3.5.7.38, Dtu v4.13.1.77 DtapiService: v3.4.1.71		
Changes	<ul> <li>New features:</li> <li>Added support for DTA-2131 new licenses: XPRT (C2Xpert T2Xpert, Atsc3Xpert support), RXAB (Basic) RXA3 (ATSC 3.0) and RXAT2 (DVB-T2)</li> <li>Matrix API 2.0: Support for getting/setting the AFD (RP186-2008)</li> <li>Matrix API 2.0: AncGetPacket wildcards and selected range of lines parameters added</li> <li>DTA-2115B/DTU-315: Initial support for ISDB-S3 modulation</li> <li>DTA-2131: ATSC 3.0 support for reception of ALP-packets up to 64K byte</li> <li>DTA-2131: ATSC 3.0 support for 2016 and 2018 LMT/RDT ALP encapsulation modes</li> <li>DTA-2195: DtAvOutput supported HDR formats added in DtHdmiTxStatus struct</li> <li>SHA256 driver signing support</li> </ul>		
	<ul> <li>Bug fixes:</li> <li>Matrix API 2.0: Timing of generated teleletext waveform was not correct</li> <li>Matrix API 2.0: Sometimes a segmentation fault in MxHdAncParser::DeEmbedAudio was seen on a disruption in the input signal</li> <li>Matrix API 2.0: AES validity bit was not ignored like specified when extracting audio as AES3 samples</li> <li>DTA-2136: Frequency offset to lock was needed when analog channel was active</li> <li>DTA-2162: Multicast without source specified was not possible for SSM IP address range</li> <li>DTA-2162/2160: GetFifoLoad() could be incorrect for IP playout</li> <li>DTA-2195: In some cases 2160P24 displays were not detected</li> <li>DTA-2195: DTAPI_E_INVALID_LNKSTD on DtMxProcess::Start for 4K could be seen</li> <li>DTA-2195: HdmiTx SCDC initialisation fails sometimes after hot plug detect</li> </ul>		
	Linux only bug fixes:  • DTA-2152\74\79\95: DTAPI_E_OUT_OF_MEMORY was seen on ASI playout due to Feb2018 Linux SDK change  Visual Studio 2008 and Visual Studio 2010 support will be discontinued from November 1th 2018		



SDK version Feb2018		
Versions	DTAPI: Drivers: DtapiService:	v5.29.0.105 Dta v4.26.0.248, DtaNw v3.5.7.38, Dtu v4.13.0.76 v3.4.0.70
Changes	<ul> <li>Matrix API 2.0</li> <li>DTA-2131: L</li> <li>Bug fixes:</li> <li>DTA-2115B: 0</li> <li>DTA-2131: G</li> <li>DTA-2154: Ro</li> </ul>	rt for DTA-2182 Dual H.264 Encoder 0: Support for WSS and Teletext output 1-detail version 1 support added for ATSC 3.0 demodulator  QAM-B signal was inverted  AM-B bitrate and timestamps were 0  abustness improvement for possible hang seen on multiple video standard switches  assible invalid FIFO-load was reported on first call
	<ul><li>Dta and Dtu o</li><li>DtaNw driver</li></ul>	xes: did generate a lot of DtapiDemoSvc Pipe files in /Tmp folder driver build errors were seen for Fedora 27 (kernel v4.14) build errors were seen for RedHat/CentOs 7.4 1: Kernel page fault was seen for some Linux distributions



SDK version	n Nov2017	
Versions	DTAPI: Drivers: DtapiService:	v5.28.0.103 Dta v4.25.0.245, DtaNw v3.5.6.37, Dtu v4.12.1.74 v3.3.5.64
Changes	<ul> <li>Matrix API 2.0</li> <li>Matrix API 2.0</li> <li>bleVpidProces</li> <li>Window 10 se</li> <li>DTA-2131: Su</li> <li>Bug fixes:</li> <li>DVB-S2 CID C</li> <li>DtInpChannel</li> <li>Matrix API 2.0</li> <li>Matrix API 2.0</li> <li>Matrix API 2.10</li> <li>DTA-107: Set</li> <li>DTA-2115/DT</li> <li>DTA-2131: AT</li> <li>DTA-2131: AT</li> <li>DTA-2131: AT</li> <li>DTA-2131: In</li> <li>DTA-2180: Pc</li> </ul>	Putput::SetHdmiAudioChannel for DTA-2195 D: Support for Line 21 CEA-608 CC output D: Support for ancillary data VPID configuration per frame; DtMxAuxConfigSdi::m_Disassing should be set. Decure boot driver support Disport for QAM-B demodulation  GUID is now using a default unique value, but could still be overridden D: GetStatistic() did not return errors like DTAPI_E_NOT_SUPPORTED D: Pixel format DT_PXFMT_YUV420P2_8B caused a crash or corrupted output D: Callback did not return error for 1080i60 configuration but 1080i59 input signal Snr() was failing although a valid CM license was used Expurious in the ATSC 3.0 output was seen FU-315: ATSC 3.0 ALP parsing incorrect when SIF or HEF is used FSC (8-VSB) demodulator did not set TEI bit in case of stream errors FSC (8-VSB) demodulator statistic DTAPI_STAT_BER_PRERS did not return correct value FSC 3.0 demodulator MER was not precise for constellations with an irregular pattern Valid ATSC 3.0 ALP-packets when ALP-header contained additional headers Disported lock status was reported

SDK versio	SDK version Aug2017		
Versions	DTAPI: Drivers: DtapiService:	v5.27.0.97 Dta v4.24.0.242, DtaNw v3.5.6.37, Dtu v4.12.1.74 v3.3.4.63	
Changes	<ul> <li>DTA-2131: A</li> <li>Bug fixes:</li> <li>DTA-2131: N</li> <li>DTA-2195: d</li> <li>DTU-351: W</li> <li>Linux only bug f</li> <li>DTA-2160/6</li> <li>DTU-315: D</li> </ul>	Output::SetHdmiColorimetry for DTA-2195 Maximum number of LDPC iterations increased to improve performance  NO_SUCH_DEVICE errors were seen in case of enabled "Windows fast startup" lriver was not updated when previous version was installed indows dtu driver was failing due to June2017 SDK changes  ixes:  2: kernel > 4.11.0 (like Fedora 25) resulted in a DtaNw compile error  /B-S(2) playout was failing  5/205/215: Dtu driver used on kernel > 4.8.0 did not start	



SDK version June2017		
Versions	DTAPI: Drivers: DtapiService:	v5.26.0.96 Dta v4.23.0.240, DtaNw v3.5.5.36, Dtu v4.12.0.73 v3.3.3.62
Changes	<ul> <li>New features:</li> <li>Support for DTA-2195: 12G SDI input + output with HDMI-2.0 output</li> <li>DTU-315: Linux support</li> </ul>	
	DTAPINET Dtl	D: Possible crash was seen for 32 bit VS2008 and VS2010 configurations npChannel::SetErrorStatsMode was missing nreading issues could occur for calls like SetTunerFrequency(), Tune()

SDK versio	n April2017	
Versions	DTAPI: Drivers: DtapiService:	v5.25.0.94 Dta v4.22.0.236, DtaNw v3.5.5.36, Dtu v4.11.0.71 v3.3.3.61
Changes	modulator (D' Matrix API 2.0 Matrix API 2.0 Matrix API 2.0 Visual Studio DTA-2115B/E DTA-2154/21 DTA-2180: So DTA-2195 12  Bug fixes: Matrix API 2.0 DTA-2160/21 DTA-2160/21 Linux only bug fi Dta driver bui For Fedora 25 Matrix API 2.0	2: Added function to configure AFD line number 2: Added function for Genlock pixel offset 2017 support added 2017 support added 2017 support for negative SNR for testing robust ATSC 3.0 and DVB-S2X modes 174: Added DtDevice:SetVcxoState to control the VCXO 2018 upport for Dolby Digital Pro audio encoding; requires firmware v2 2:26-SDI I/O adapter with HDMI 2.0 output: Initial support added 20: for some equipment audio decoding issues occurred 3: fetTsRate always reported 0bps for QAM-C,DVB-C and 8-VSB 162: trying to fill the transmit FIFO on HOLD mode resulted in a deadlock 162: FEC reconstruction status did change continuously for large matrices 2: ses: 2: Id was failing due to a signature mismatch 2: DtaNw driver compile error was seen 2: only one frame was received for the DTU-351



SDK version	Feb2017	
Versions	DTAPI: Drivers: DtapiService:	v5.24.0.91 Dta v4.21.0.229, DtaNw v3.5.4.35, Dtu v4.11.0.71 v3.3.2.60
Changes	New features:  • DTA-2131: Support for 8-VSB demodulation  • DTA-2131: Support for QAM-A and QAM-C demodulation  • DTU-315: Support for DVB-CID	
	<ul> <li>ATSC 3.0 den</li> <li>DTAPINET DtS</li> <li>ISDB-T modul</li> <li>Matrix API 2.0</li> <li>DTA-2115(B):</li> <li>DTA-2131: Pc</li> <li>DTA-2136/21</li> <li>DTA-2152: Dc</li> <li>DTA-2160/21</li> <li>DTA-2162: BS</li> <li>Linux only bug fix</li> </ul>	modulator issue was seen when using guard interval 12_4864 modulator lock statistic reported in_lock when signal was lost statistics::GetName function didn't return the string correctly ation did result in high PCR-jitter when PCR was part of the video PID at For 4K level B audio data/control packets were not always located in the correct link and Continuous Wave configurational result in 3dB offset obtential DVB-T2 synchronisation issue was seen after cable disconnect-connected 37/2139: Constellation points were not in range of -16k+16k and buffered mode was not working for firmware version V3 at 62: VLAN configuration using SetIpPars was not working SOD was seen in a specific condition on loop-through and multicast IP addresses wees:



SDK version	Dec2016	
Versions	DTAPI: Drivers: DtapiService:	v5.23.0.89 Dta v4.20.0.226, DtaNw v3.5.3.34, Dtu v4.10.1.70 v3.3.1.59
Changes	<ul> <li>ATSC 3.0: Sup</li> <li>Matrix API 2.0</li> <li>Matrix API 2.0</li> <li>Matrix API 2.0</li> <li>DTA-2131: Support Supp</li></ul>	anges incorporated for latest specification update oport for IQ over ASI option (DTA-2145 and DTA-2160): Added minimal byte alignment setting (DtMxVideoConfig::m_BufAlignment): Decoding performance improvement by using separate threads for Video and Anc: Support for thread priorities (DtMxProcess::SetThreadScheduling()): apport for QAM-A (DVB-C) and QAM-C demodulation  Tas not updated by Installer: Embedding an audio service with more than 4 services could cause a crash: Channel configurations for ATSC 3.0/DVB-T2/DVB-C2 resulted in inverted spectrum of the service of the symbol rate of DTAPI_E_INVALID_SYMRATE was reported when configuring the symbol rate of the default gateway of the symbol of the default gateway of the cable of

Versions	DTAPI: Drivers: DtapiService:	v5.21.0.85 Dta v4.19.0.224, DtaNw v3.5.3.34, Dtu v4.10.1.70 v3.3.0.58	
Changes	New features:  • Support for DTA-2179: 12xSD/HD/3G-SDI and ASI; maximum performance 8x3G(2x4K) + 4xHD  • Matrix API 2.0: Performance improvements including support for thread affinity for call back threads  • Matrix API 2.0: Added support for setting VPID bytes (part of DtMxAuxConfigSdi)		
	<ul> <li>Bug fixes:</li> <li>VLAN configuration option was missing for Windows 10</li> <li>Matrix API 2.0: Crash when receiving SD-SDI, aux data enabled and a non-default pixel format</li> <li>Matrix API 2.0: AES sample parity was not computed correct for HD streams</li> <li>Matrix API 2.0: Possible assert when scaling SD-SDI signals</li> <li>Matrix API 2.0: Incorrect VPID was used for 4K output (3G level B)</li> <li>Matrix API 2.0: Lines were duplicated for a 4K output using the DT_PXFMT_YUV422P_8B pixel format</li> <li>Matrix API 2.0: Columns were swapped on 4K sample-interleave output when configured as DT_PXFMT_UYVY_8B</li> <li>DTA-2174: Signal detected but no new frame interrupts after short signal interruption</li> <li>DTA-2180: In some rare cases input standard detection on HDMI port was failing</li> </ul>		
	Linux only bug to Lock up was	ixes: seen on CentOS 7 HP DL380 G9 server	
	IMPORTANT N Visual Studio 2	OTE: 005 and Windows XP support will be discontinued at the start of 2017	



SDK version	n Aug2016	
Versions	DTAPI: Drivers: DtapiService:	v5.20.0.83 Dta v4.18.0.222, DtaNw v3.5.2.30, Dtu v4.10.1.70 v3.3.0.58
Changes	terleaver (HTI)  DTA-2160/21  Matrix API 2.0 ding of AC-3  Support for D  Bug fixes: Matrix API 2.0 Memory leak DTU-315: Spe DTA-2136: Sp DTA-2139: Di DTA-2162: BS DTA-2180: N  Linux only bug fix Driver compile	62: Support for routing tables 2: Add support for inserting SMPTE-337 data-burst as audio samples (enables embedand E-AC-3 audio) T_EVENT_TYPE_IOCONFIG that fires when any IoConfig on attached device changes 2: Possible segmentation fault on high load 3: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 3: Possible segmentation fault on high load 4: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 4: Possible segmentation fault on high load 5: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 5: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 6: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 6: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 6: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 6: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 6: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 6: Possible segmentation fault on high load 6: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each Set

Versions	DTAPI: Drivers:	v5.19.0.81 Dta v4.17.0.221, DtaNw v3.5.2.30, Dtu v4.10.0.69
	DtapiService:	v3.2.1.57
Changes	<ul> <li>DTA-2131 A</li> <li>Support for n</li> <li>Support for E</li> <li>Support for n</li> <li>Support for L</li> <li>Matrix API 2.</li> <li>Matrix API 2.</li> </ul>	and DTU-315 ATSC 3.0 modulator support ISC 3.0 demodulator support nultiple source IP address filtering using new struct DtlpPars2 verride of default gateway address DTU-245B eboot without powercycle for the DTA-2154 icense Programming (DtDevice::SetLicenseFromFile, DtDevice::SetLicenseFromString) D: Performance improvements for 4K D: Support for teletext decoding from 625I50 signals D: Support for audio frame number when no audio control packets are available
	<ul> <li>buffer with a</li> <li>Matrix API 2.</li> <li>Matrix API 2.</li> <li>Matrix API 2.</li> <li>DTAPI namin</li> <li>DTA-2115B:</li> <li>DTA-2115B/</li> </ul>	D: DtMxRawConfigSdi::m_LineAlignment set to -1 (no alignment) did result in data size of 1 line D: RGB->UYVY conversion used wrong constants for BT709 colorspace D: WSS parsing failed on some valid streams D: YUV_422P_16B input did corrupted data in V plane g conflict with standard C libraries did occur due to atan2f function ATSC playout was not working for 8*8MHz mode DTU-315: wrong channel filter was used for ISDB-Tmm etTunerFrequency was failing when both ports were used



SDK version April2016		
Versions	DTAPI: Drivers: DtapiService:	v5.18.1.78 Dta v4.16.0.217, DtaNw v3.5.2.30, Dtu v4.9.1.68 v3.2.0.56
Changes	<ul><li>DTA-2131: M</li><li>DTA-2180: A</li><li>DTA-2180: A</li><li>DTA-2180: A</li></ul>	Power level for 8x8MHz mode was incorrect for DVB-T2 and DVB-C2 Nore improvements for 1.7MHz adjacent channels were needed udio pass through configuration was failing dded encoder limitation: max 2 AAC audio channels for 1080p H.264 configurations dded encoder limitation: max 3 Dolby-E audio channels are supported and only 2 for 264 configurations

SDK version March2016		
Versions	DTAPI: Drivers: DtapiService:	v5.18.0.77 Dta v4.16.0.217, DtaNw v3.5.2.30, Dtu v4.9.1.68 v3.2.0.56
Changes	<ul> <li>Support for D</li> <li>Support for D</li> <li>Full support for</li> <li>Bug fixes:</li> <li>DtapiHwFunct</li> <li>DTU-315: did</li> <li>DTU-315/DTA</li> <li>DTA-2131: di</li> </ul>	TA-2115B 8x 8MHz VHF/UHF channel modulation (HW8CH option) TA-2115B GPS clock synchronisation TA-2115B Phase noise emulation or DTA-2180 H.264 HD Contribution Encoder for PCle  Scan returned no NICs when more than 20 NICs were present I not output a signal at low symbol rates A-2111/DTA-2115: power level for Multi-channel modulation (SWMC) was incorrect fficult to receive a signal when many adjacent channels were present stening on IP-inputs, when no data was received, did cost a lot of CPU resources

SDK version	n Jan2016	
Versions	DTAPI: Drivers: DtapiService:	v5.17.0.74 Dta v4.15.0.212, DtaNw v3.5.1.29, Dtu v4.9.0.67 v3.1.1.54
Changes	Matrix API 2.0	for DTA-2180 H.264 HD Contribution Encoder for PCle : performance improvements for 4K I channel software modulation
	<ul> <li>DAB playout r</li> <li>GetIpStats m_</li> <li>IPv6 receive for</li> <li>Possible applii</li> <li>DTU-236(A) G</li> </ul>	esulted in audio samples was set for both channels of a channel esulted in audio artefacts when play DAB ETI file containing audio reconfiguration NumlpPacketsReceived was not incremented when header identification field was zero or UDP resulted in a crash cation hang was seen occasionally due to race condition in DMA abort QAM annex was not reported correctly in StreamXpert
	· ·	xes: nstall fix for Ubuntu 14.04 igh CPU load seen when controlling multiple units



SDK version Oct2015		
Versions	DTAPI: Drivers: DtapiService:	v5.16.2.71 Dta v4.14.7.207, DtaNw v3.5.1.29, Dtu v4.8.3.66 v3.1.0.52
Changes	Support for log  Bug fixes:     DtOutpChanne     DtInpChanne     Matrix API 2.0     Matrix API 2.0     Matrix API 2.0     DTA-2107: D	ew DVB-C2 statistics for DTU-238 and DTA-2138(B)  Intest DTU-238 hardware revision 1  Inel::SetFailsafeConfig did return invalid value on DTAPI_IOCONFIG_FAILSAFE  Inel::GetStatistics did return unclear error when tuning action was still in progress  Incl::Number of dropped frames was not accurately reported for DTU-351  Incl::No error was returned when configuring raw SDI input for multi-link  Incl::Out-of-memory issue was seen when call-back on input-only matrix was to slow  Incl::SetFailsafeConfig did return invalid value on DTAPI change in Aug2015 SDK  Incl::SetFailsafeConfig did return invalid value on DTAPI change in Aug2015 SDK  Incl::SetFailsafeConfig did return invalid value on DTAPI change in Aug2015 SDK  Incl::SetFailsafeConfig did return invalid value on DTAPI change in Aug2015 SDK

SDK version Sep2015	
Versions	DTAPI: v5.16.1.68 Drivers: Dta v4.14.6.205, DtaNw v3.5.1.29, Dtu v4.8.2.65 DtapiService: v3.0.4.51
Changes	Bug fixes:  • Matrix API 2.0: performance improvements for 4K NV12 input  • Multiple IP channel detach at the same time could have resulted in a crash  • DTU-236: DtInpChannel::Equalise disable call did fail  • DTU-238: ISDB-T statistics BER PRE-RS and PER where invalid  • DTU-238/DTA-2138B: DVB-C2 relock on input signal stop and start was failing  • DTU-315: Programing a license file using DtInfo did not succeed  • DTU-315: Modulator output errors were seen in some cases  • DTA-2137: Link margin statistic was not calculated correctly  • DTA-2174: Internal genlocking error, caused 4K output issues



SDK version	on Aug2015
Versions	DTAPI: v5.16.0.67 Drivers: Dta v4.14.4.203, DtaNw v3.5.1.29, Dtu v4.8.0.63 DtapiService: v3.0.3.50
Changes	New features:  • Support for DTU-315 VHF/UHF/L-band modulator for USB-3  • Support for Visual Studio 2015  • Matrix API 2.0: Support for 4:2:0 (NV12 pixel format)  • Matrix API 2.0: Support for parsing WSS from 625i signals  • Matrix API 2.0: Support for parsing Line21 data from 525i signals  • Matrix API 2.0: Support for parsing/generating Video Index data from SD signals
	Bug fixes:  Matrix API 2.0: performance improvements for 4K input + output (V210)  Matrix API 2.0: performance improvements for DTU-351  Matrix API 2.0: Assert was seen for DTU-351 used in debug mode  Matrix API 2.0: SD audio parsing was resulting in a crash  Matrix API 2.0: callback was not called (with DT_FRMSTATUS_NO_SIGNAL) when there was no input present on startup  DTU-236/238: SpectrumScan was failing when start frequency was near the minimum frequency  DTU-336/238: SpectrumScan improvements for duration  DTU-351: DtDevice::DetectVidStd was not implemented  DTA-2131: RfLevel measurement was incorrect caused by latest DtapiService changes  DTA-2135: in some cases DtapiService crash was seen using T2Xpert  DTA-2138B: RfLevel was having an incorrect offset  DTA-160/2160: SDI over IP transmit was not working  DTA-2162: for Source Specific Multicast only IP address was configurable not the Port number  DTA-2152/2154/2174: Genref port was not configurable when a port has genlock=on configured  DTA-2152/2154/2174: driver was failing when configuration in the registry was invalid  DTA-2174: Genlock was not calibrated (a few lines offset)
	Linux only bug fixes:  • DtaNw driver did not build on Linux kernels >= 3.16  • DtapiService did not install/start correctly on Ubuntu 15.04  • DtapiService was hanging when DtInpChannel:Detach() was called  • AttachToPort failure was seen when using old SDK and new drivers



SDK version	n June2015	
Versions	DTAPI: Drivers: DtapiService:	v5.15.0.60 Dta v4.14.0.194, DtaNw v3.5.0.28, Dtu v4.7.0.61 v3.0.1.46
Changes	New features:  Support for 3  DTU-351 sup  Added DtDev  Added DtDev  Bug fixes:  Documentation  DtInputChans  DtDemodEve  Matrix API 2.0  Matrix API 2.0  Matrix API 2.0  Matrix API 2.0  DtSdiUtlity Ta  DTU-236A di  DTU-238 did  DTA-2131: co  DTA-2154/D	ice::DetectVidStd() capable of detecting 4K video standards and link number ice::GetTemperature(), DtDevice::GetFanTemperature() is now deprecated  on for DtInputChannel::GetConstellationPoints() points ranges were incorrect. nel::SpectrumScan() for DTU-236A/DTU-238 was not working properly nt DTAPI_EV_TUNE_FREQ_HAS_CHANGED was not triggered in some conditions D: Possible corrupted audio was seen for SD signals D: Wrong audio status bits for DtMxAudioChannelStatus:: GetPcmNumBits() D: Invalid BCH was inserted for HD audio packets D: Possible crash when DtMxRowConfig::m_Enable was set to false ble Of Contents size was too small d report incorrect levels in some cases fail to lock in certain situations onfiguring more than two DTA-2131 units in one PC did result in an error TA-2174: PSF input formats were not detected
	• DTA-2152/D	TA-2154/DTA-2174: No data was received after some fast input switch conditions

SDK version May2015		
Versions	DTAPI: Drivers: DtapiService:	v5.14.0.56 Dta v4.13.3.191, DtaNw v3.5.0.28, Dtu v4.6.1.59 v3.0.0.44
Changes		he DTU-238 DiService uses statistic caching to significantly improving speed of demodulator related lel methods (e.g. GetStatistics or SetTunerFrequency)
	continuity in a  DTA-2137: f  DTA-2154: c  DTA-2154: E	crossing the 999↔1000Mhz and 1399↔1400Mhz frequency boundaries caused a distinct the RF signal or DVB-S the PRE-VIT-BER was returning invalid arrival timestamps were assigned to wrong frame (one frame to late) Ota driver v4.13.0.180 introduced a backwards compatibility issue with firmware ≤V4 post signal lock when a second application is monitoring statistics (only in DTAPI mode)



SDK versio	n Apr2015
Versions	DTAPI: v5.13.0.54 Drivers: Dta v4.13.0.180, DtaNw v3.5.0.28, Dtu v4.5.1.57 DtapiService: v2.2.15.39
Changes	New features:  Support for SMPTE ST2022-5/6 and ST2022-7, including support for seamless SDI over IP using DTA-2162  Full support for SMPTE-2022-1-2007 FEC handling Support for ISDB-S B15 format  Matrix API 2.0: support for v210 for 10-bit video (DT_PXFMT_V210)  Matrix API 2.0: m_DataFormat is removed in various structs, functionality now part of m_PixelFormat  Bug fixes:  Matrix API 2.0: Audio input for 4K was not processed correctly  Matrix API 2.0: Deadlock on DtMxProcess:Stop() was seen in exceptional cases  Matrix API 2.0: Minimum end-to-end delay increased by 1 frame, default end-to-end delay increased by 2 frames.  Matrix API 2.0: Stability improvements especially on systems with a heavy CPU/memory load  IP RTP receive delay seen on switch of input streams  Possible race condition in loConfig when set from multiple applications, for example on SDI IOSTD  DTA-2111: DVB-C symbolrate < 4MBaud did not work  DTA-2115: Undefined signal for frequency changes 999-1000MHz and 1399-1400MHz  Windows only bug fixes:  DTAPINET: DtInpChannel::ReadFrame call was broken  Linux only bug fixes:  Enumerating old dta driver was failing with error: DTAPI_E_DRIVER_INCOMP  Makefile order was incorrect Udev rules were not in proper location before module was loaded  Linking to DTAPI now needs the "-Idl" flag besides the already required "-Ipthread" flag

SDK version Feb2015r2	
Versions	DTAPI: v5.12.0.51 Drivers: Dta v4.12.1.168, DtaNw v3.5.0.28, Dtu v4.5.0.56 DtapiService: v2.2.15.39
Changes	<ul> <li>Hot Fixes:</li> <li>DTA-2154 Rev 4: Fine-tuned FAN control settings to make sure FAN does not run faster than necessary for lower temperatures</li> <li>DTA-160/2160/2162: FEC reconstruction logic did not restore all packets it could potentially repair</li> </ul>



SDK version	ı Feb2015
Versions	DTAPI:       v5.12.0.51         Drivers:       Dta v4.12.0.165, DtaNw v3.5.0.28, Dtu v4.5.0.56         DtapiService:       v2.2.15.39
Changes	<ul> <li>New features:</li> <li>Support for dual channel software modulation; new license available for DTA-2111/DTA-2115</li> <li>Support for HD-SDI Progressive Segmented Frame (PSF) formats. NOTE: requires latest firmware versions for DTA-2152 (V2) and DTA-2154 (V5)</li> <li>Matrix API 2.0: RGB support</li> <li>Support for DTA-2154 hardware revision 4.0</li> <li>GENREF IO-config no longer takes a reference video standard as par-extra0</li> <li>Matrix API 2.0: added a frame arrival timestamp to DtMxFrame</li> <li>Support for DTA-2152 firmware version 2 and DTA-2154 firmware versions 4/5</li> </ul>
	<ul> <li>Bug fixes:</li> <li>Possible crash on older CPU's (that did not support SSE3)</li> <li>LocalNIC 127.0.0.1 loopback did not work when IP cable was disconnected</li> <li>Matrix API 2.0: The 3G-outputs in a 4K matrix row were not always in-sync with each other</li> <li>Matrix API 2.0: Possible corruption of received ancillary data for 3G-SDI signals</li> <li>Matrix API 2.0: Checksum was missing on DtMxFrame::AncGetPacket</li> <li>Matrix API 2.0: Assert was seen when starting SDI output as 1080i59.94</li> <li>Matrix API 2.0: Improved performance of ancillary data generation</li> <li>Matrix API 2.0: DtMxFrame::AncGetPacket failed for audio ancillary data</li> <li>DtFrameBuffer::AncAddAudio/AncCommit was significantly slower for fractional SDI standards</li> <li>DTAPI.NET was missing previous DTAPI changes, like DVB-S2x and DtDvbCidPars</li> <li>204 bytes DVB-S modulation resulted in incorrect TS-rate</li> <li>DTA-2107: 204 bytes playout was failing (remark: TxMode MIN16 is required)</li> <li>DTA-2115: DVB-S2X errors were generated for VCM stream with VLSNR and other modcods</li> <li>DTA-2139: QAM-B tuning was sometimes failing for some high frequency signals</li> <li>DTA-2152: Fixed genlock alignment, to ensure outputs are aligned within 1.5us of the genlock reference</li> </ul>
	Windows only bug fixes:  On Windows XP, the DTAPI would crash (introduced in Nov2014 SDK release)  Memory usage was increasing slowly on multiple AttachToPort/DetachToPort actions
	Linux only bug fixes:  • All threads in an application linking to the DTAPI were renamed "MX log thread"



SDK version Nov2014	
Versions	DTAPI: v5.11.0.49 Drivers: Dta v4.11.0.148, DtaNw v3.5.0.28, Dtu v4.4.16.55 DtapiService: v2.2.14.38
Changes	<ul> <li>New features:</li> <li>Support for the DTA-2174 (Quad 3G/HD-SDI / ASI Ports with Genlock Adapter)</li> <li>DTAPI- Matrix 2.0: Matrix API 2.0 further abstracts from SDI interface implementation details and enables your application to concentrate solely on processing the video, audio and ancillary data. For example it can be used to easily build SMPTE-425-5 compliant 4K input/output applications using the DTA-2174.</li> <li>DTA-2115: Support for DVB carrier identification for satellite using DtOutpChannel::SetModControl(DtDvbCidPars)</li> </ul>
	Bug fixes:  Local NIC did not report errors like DTAPI_NO_LINK  DTAPINET was missing new SMPTE ST 2022-7 functions  DTAPI_RXMODE_IPRAW was failing for non MPEG 192 bytes packets  DtInpChannel::RegisterDemodCallback in some cases failed for slow PC's  Constant audible crack when embedding audio into a XXXp59.94 SDI standard  DTA-160: Windows Sleep/Hibernate for some PC's resulted in a BSOD  DTA-2115: DVB-S2X modulation for 32-APSK 32/45 short frames was incorrect  DTA-2115: DVB-S2X modulation for VLSNR BPSK was incorrect  DTA-2131: DtAdvDemod MER and Impulse Response was incorrect for second MISO channel  DTA-2131: DVB-C2 demodulator tuning to signal with 32MHz was failing  DTA-2131: DVB-C2 reception of a G/I=128 configuration was not error free

SDK version	SDK version Oct2014	
Versions	DTAPI: v5.10.0.46 Drivers: Dta v4.10.0.144, DtaNw v3.5.0.28, Dtu v4.4.16.55 DtapiService: v2.2.13.37	
Changes	New features:  • Support for SMPTE ST 2022-7 'Seamless Protection Switching' using the DTA-2162  • Support for all possible number of FEC rows and FEC columns (before only the SMPTE specified)  • Support for block aligned FEC generation using DTAPI_FEC_2D_M1_B and DTAPI_FEC_2D_M2_B  • DTA-2138B support; upgraded demodulator includes ISDB-T and T2 lite (DVB-T2 v1.3.1) support  • DTA-2144B support	
	Bug fixes:  • Fractional SDI video standards did not contain the correct amount of audio samples in their output  • DTA-2137: Calling SetTunerFrequency() twice on same frequency in some cases stopped the receiver  • DTA-2115: DVB-S2X performance issue was seen on some new PC's  Linux only bug fixes:  • DTA-2154: Possible driver crash on application exit  • DTA-2160: Possible failing network port attach for Ubuntu 3.11	



SDK version Sep2014	
Versions	DTAPI: v5.9.0.45 Drivers: Dta v4.9.1.142, DtaNw v3.5.0.28, Dtu v4.4.15.54 DtapiService: v2.2.12.36
Changes	New features: Support for 20%, 25% roll-off for DVB-S modulation DTA-2131: DAB Transmitter ID support AncPacket class extended with m_LineNumber field Note: Line parameter removed from DtFrameBuffer::AncAddPacket old interface of AncAddPacket is marked as deprecated and will be removed in a future release
	Bug fixes:  • Dta crash could occur on application exit  • T2-MI input stream was not correctly modulated when IL-Type = 1  • T2-MI output through a virtual port was not working for DTA-2111 and DTU-215  • Registration for DT_EVENT_TYPE_GENLOCK did trigger an assert  • DtAdvDemod: For DVB-C2 all opened streams were closed on SetTunerFrequency()  • DtAdvDemod: Virtual input support did not work correctly  • DtAdvDemod: Did return DTAPI_OK on AttachToPort() when port was already in use  • DTU-351: Calling DtFrameBuffer::AncGet* twice with the same frame number caused an DTAPI error  • DTA-2115: DVB-T2 single PLP was not working without DVB-T2 (multiPLP) license  • DTA-2115: DVB-S, DVB-S2 and QAM levels were not correct  • DTA-2152: Genlock was misaligned for several formats (720p50 does still have misalignment)  • DTA-2154: Configuring port 4 as double-buffered from port 3 was no possible  • DTA-160/2160: A zero in a multicast address was treated as a wildcard
	Linux only bug fixes:  • IP V6 support was not working correctly



SDK version	on June2014
Versions	DTAPI: v5.8.0.43 Drivers: Dta v4.9.0.140, DtaNw v3.5.0.28, Dtu v4.4.14.53 DtapiService: v2.2.12.36
Changes	<ul> <li>New features:</li> <li>Initial support for the DTA-2174 (Quad 3G/HD-SDI / ASI Ports with Genlock Adapter)</li> <li>Support for runtime changes to channel modelling settings (i.e. no need to stop modulation anymore)</li> <li>Support for extra option to force link IP speed to 1Gbps</li> <li>Support for DVB-S2 16/32-APSK constellation shape configuration</li> <li>DTA-2115: Optimized DMA performance, so that card can be used in PCle gen2 slots at maximum sample rates</li> <li>DTA-2154: Reduced time needed to achieve genlock</li> <li>DTA-2154: Support for ancillary data checksum inserter</li> </ul>
	Bug fixes:  HyperV installation did result in a DTAPI_E_NW_DRIVER error for DTA-160/2160/2162  Spectral inversion was enabled by default for DVB-S2 / ISDB-S (introduced in Apr2014 SDK))  VLAN for Windows 8.1 did not function correctly due to administrator right changes  Audio control packets were not added for embedded audio in HD SDI streams  DTA-2115: Shoulder attenuation was not according specification for OFDM signals  DTA-2115: Non-default bitrates for ISDB-T were not accepted  DTA-2115: DVB-S2X dummy frames were incorrect  DTA-2115: DVB-S2X 16-APSK-L:5/9,8/15,1/2 did not create a correct signal  DTA-2144: Driver did crash after driver/PC restart when a genref was configured  DTA-2154: GetStatus(AsiLock) did always return 0
	<ul> <li>Non-backwards compatible API change (<u>a code change might be required!</u>):</li> <li>Buffers used for DtFrameBuffer and DtSdiMatrix must now have their addresses aligned at a 32-byte boundary (instead of 8-byte boundary) and their sizes must be a multiple of 32 bytes (instead of 8 bytes).</li> <li>DTE-3137: RF level statistic was incorrectly using dBm unit, now using dBmV. Also statistic for MER was incorrect. Spectral Inversion, Link Margin, Es/NO and Eb/NO statistics are added (similar statistic support like DTA-2137)</li> </ul>
	<ul> <li>Linux only bug fixes:</li> <li>Dta driver did not compile for Linux kernel versions &gt;= 3.13</li> <li>DTA-2160 network port did not function for a network configurations were only 2 interfaces descriptions were found</li> </ul>



SDK version Apr2014	
Versions	DTAPI: v5.7.0.41 Drivers: Dta v4.8.0.121, DtaNw v3.4.6.27, Dtu v4.4.13.52 DtapiService: v2.2.11.35
Changes	New features:  • Support for DTA-2115 (All-Standard, All-Band Modulator) including DVB-S2x modulation  • SDK support for Visual Studio 2013 (VC12)  • Support for non-exclusive attaching to input channels, to allow read-only access to port status parameters. NOTE: this is not supported for all input types  • Support for DTAPI_STAT_SPECTRUMINV statistic for DTA-2136  Bug fixes:  • In some cases invalid DVB-T2 GSE packets were sent  • Matrix API did not embed audio ANC packets in switching lines  • DtInpChannel::SetIpPars crashed when unicast addresses were specified in combination with seamless protection mode  • DTA-2152/2154: Driver did crash when IO Standard for GenRef port was set to SD-SDI  • DTA-2154: Analog genlock did not work  • DTA-2162: On high network transmit load the non real-time transmit stalled  Linux only bug fixes:
	<ul> <li>DTA-2154 ASI input did not work</li> <li>DtapiGetDeviceDriverVersion(DTU) did return DTAPI_OK when no DTUs were present</li> </ul>

SDK version	n Feb2014
Versions	DTAPI: v5.6.0.40 Drivers: Dta v4.7.4.107, DtaNw v3.4.5.26, Dtu v4.4.11.50 DtapiService: v2.2.10.34
Changes	New features:  DTA-2131: added Advanced demodulation API support for DVB-T2/DVB-C2 BBframes  DTA-2131: added Advanced demodulation API support for GSE using DVB-T2  GSE support added for DVB-T2 modulation  ISDB-Tmm support added for DTA-115,116, DTU-215 (only < 13 segments, DTA-2111 can do all)  Matrix API support for 24 and 32 bit PCM SDI audio added  Matrix API support for timestamps in DtrameBuffer::GetFrameInfo added  Device temperature and fan-speed support added in DtDevice for DTA-2139, DTA-2154  Now making use of Visual Studio generated _WIN64 and _WIN32 defines for DTAPI.H  Bug fixes:  For Windows 8.1 adding a VLAN did not succeed  DVB-T/H was not correctly modulated/demodulated when using 2k in-depth interleaving  DtapDeviceScan order of devices returned was changed in Oct2013 release, changes reverted and optional parameter added for serial number sorting  DTU-351: SD SDI reception did result in lost frames  DTA-2131: Possible crash on detach of DVB-C2/T2 demodulator; introduced in Dec2013 release  DTA-2136: Packet loss on Port 2 when tuning port 1 and shared antenna mode was active  DTA-2137: VCM lock issue on low SNR; mute mechanism introduced using DtDemodParsDvbS2Adv  DTA-2154: Auto detect failed to detect standard of HD signals when port was configured for SD-SDI operation  New Linux features:  Added ini file mechanism which specifies the default IO-configuration values for a card