DekTec SDK REVISION HISTORY







DekTec SDK Revision History

SDK version	May2018	
Versions	DTAPI: Drivers: DtapiService:	v5.30.0.108 Dta v4.26.2.251, DtaNw v3.5.7.38, Dtu v4.13.1.77 v3.4.1.71
Changes	New features: Added suppor RXA3 (ATSC 3) Matrix API 2.0 Matrix API 2.0 DTA-2115B/D DTA-2131: A DTA-2195: D SHA256 drive Bug fixes: Matrix API 2.0 Matrix API 2.0 Matrix API 2.0 disruption in t Matrix API 2.0 DTA-2136: Fr DTA-2162: M DTA-2162: M DTA-2195: D DTA-2195: D Linux only bug fixed	In for DTA-2131 new licenses: XPRT (C2Xpert T2Xpert, Atsc3Xpert support), RXAB (Basic), 8.0) and RXAT2 (DVB-T2) 2: Support for getting/setting the AFD (RP186-2008) 2: AncGetPacket wildcards and selected range of lines parameters added DTU-315: Initial support for ISDB-S3 modulation TSC 3.0 support for reception of ALP-packets up to 64K byte TSC 3.0 support for 2016 and 2018 LMT/RDT ALP encapsulation modes the tax of tax of the tax of tax of the tax of tax of the tax of
	Visual Studio 20	08 and Visual Studio 2010 support will be discontinued from November 1th 2018

SDK versio	n 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	Matrix API 2.6 DTA-2131: L Bug fixes: DTA-2115B: DTA-2131: G DTA-2154: R DTA-2174: P Linux only bug fi DtapiService G Dta and Dtu G DtaNw driver	rt for DTA-2182 Dual H.264 Encoder D: Support for WSS and Teletext output 1-detail version 1 support added for ATSC 3.0 demodulator QAM-B signal was inverted DAM-B bitrate and timestamps were 0 Dobustness improvement for possible hang seen on multiple video standard switches DOSSIBLE invalid FIFO-load was reported on first call Dixes: Didd generate a lot of DtapiDemoSvc Pipe files in /Tmp folder Dixer build errors were seen for Fedora 27 (kernel v4.14) Double errors were seen for RedHat/CentOs 7.4 Dixer base output Di



SDK version	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	 Matrix API 2.0 Matrix API 2.0 bleVpidProces Window 10 se DTA-2131: Su Bug fixes: DVB-S2 CID Co DtInpChannel Matrix API 2.0 Matrix API 2.0 DTA-107: SetS DTA-2115B: S DTA-2115/DT DTA-2131: AT DTA-2131: AT DTA-2131: AT DTA-2131: Inv DTA-2180: Po 	utput::SetHdmiAudioChannel for DTA-2195 : Support for Line 21 CEA-608 CC output : Support for ancillary data VPID configuration per frame; DtMxAuxConfigSdi::m_Disasing should be set. scure boot driver support upport for QAM-B demodulation GUID is now using a default unique value, but could still be overridden ::GetStatistic() did not return errors like DTAPI_E_NOT_SUPPORTED : Pixel format DT_PXFMT_YUV420P2_8B caused a crash or corrupted output : Callback did not return error for 1080i60 configuration but 1080i59 input signal for () was failing although a valid CM license was used ispurious in the ATSC 3.0 output was seen TU-315: ATSC 3.0 ALP parsing incorrect when SIF or HEF is used TSC (8-VSB) demodulator did not set TEI bit in case of stream errors TSC (8-VSB) demodulator statistic DTAPI_STAT_BER_PRERS did not return correct value TSC 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 stential driver divide by zero crash was seen correct lock status was reported

SDK version	n 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	 DTA-2131: N Bug fixes: DTA-2131: N DTA-2195: d DTU-351: Wi Linux only bug f DTA-2160/60 DTU-315: DN 	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	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	New features: • Support for DTA-2195: 12G SDI input + output with HDMI-2.0 output • DTU-315: Linux support		
	DTAPINET Dt	D: Possible crash was seen for 32 bit VS2008 and VS2010 configurations InpChannel::SetErrorStatsMode was missing hreading 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 Visual Studio DTA-2115B/I DTA-2154/2 DTA-2180: Si DTA-2195 12 Bug fixes: Matrix API 2.0 DTA-2160/2 DTA-2160/2 Linux only bug fi Dta driver bu For Fedora 2: Matrix API 2.0 IMPORTANT NO	D: Added function to configure AFD line number D: Added function for Genlock pixel offset 2017 support added DTU-315: Support for negative SNR for testing robust ATSC 3.0 and DVB-S2X modes 174: Added DtDevice:SetVcxoState to control the VCXO upport for Dolby Digital Pro audio encoding; requires firmware v2 2:G-SDI I/O adapter with HDMI 2.0 output: Initial support added D: for some equipment audio decoding issues occurred SetTsRate 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 idd was failing due to a signature mismatch 5 DtaNw driver compile error was seen D: 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: St. DTA-2131: St. DTU-315: Sup Bug fixes: ATSC 3.0 den ATSC 3.0 den DTAPINET DtS ISDB-T modul Matrix API 2.0 DTA-2115(B):	upport for 8-VSB demodulation upport for QAM-A and QAM-C demodulation upport for DVB-CID 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 b: For 4K level B audio data/control packets were not always located in the correct link Continuous Wave configurationdid result in 3dB offset btential DVB-T2 synchronisation issue was seen after cable disconnect-connected
	DTA-2152: DoDTA-2160/21DTA-2162: BSLinux only bug fix	37/2139: Constellation points were not in range of -16k+16k oubly buffered mode was not working for firmware version V3 62: VLAN configuration using SetIpPars was not working SOD was seen in a specific condition on loop-through and multicast IP addresses xes: 62: MAC address changes were not applied correctly



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	 ATSC 3.0: Sup Matrix API 2.0: Matrix API 2.0: Matrix API 2.0: DTA-2131: Su Bug fixes: VLAN driver w Matrix API 2.0: DTA-2115B: 8 DTA-2138B: R DTA-2138(B): DTA-2160/21 	anges incorporated for latest specification update sport 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 Ance Support for thread priorities (DtMxProcess::SetThreadScheduling()) pport for QAM-A (DVB-C) and QAM-C demodulation as 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 F level accuracy was1dB instead of 0,1dB DTAPI_E_INVALID_SYMRATE was reported when configuring the symbol rate 62: IP output did take broadcast MAC address instead of the default gateway 62: IP-Address in DtHwFuncDesc did return 0.0.0.0 in case of a static defined address ted cable

Versions	DTAPI: Drivers:	v5.21.0.85	
	DtapiService:	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)		
	 Matrix API 2. TPXFMT_L DTA-2174: S 	Orash when receiving SD-SDI, aux data enabled and a non-default pixel format Orash when receiving SD-SDI, aux data enabled and a non-default pixel format Orash when receiving SD-SDI, aux data enabled and a non-default pixel format Orash when scaling SD-SDI signals Orash verification of the scaling scaling of the scaling of the scaling of the scaling scaling of the scaling of th	
	Linux only bug f Lock up was	ixes: seen on CentOS 7 HP DL380 G9 server	
	IMPORTANT No Visual Studio 20	OTE: 005 and Windows XP support will be discontinued at the start of 2017	



SDK version	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 Matrix API 2.0 Memory leak DTU-315: Spe DTA-2136: Sp DTA-2139: DI DTA-2162: BS DTA-2162: BS DTA-2180: No	62: Support for routing tables b: 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 b: Possible segmentation fault on high load b: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) bectrum inversion for DVB-C was incorrect priver installer failing when multiple DTA-2139 units are installed 74: Potential hang of DMA after call to detect video standard SOD when using port2 and SMPTE-2022-7 disabled umber of Dolby-E services is limited to 3

SDK version	on June2016	
Versions	DTAPI: Drivers: DtapiService:	v5.19.0.81 Dta v4.17.0.221, DtaNw v3.5.2.30, Dtu v4.10.0.69 v3.2.1.57
Changes	 DTA-2131 A Support for n Support for L Matrix API 2. DTAPI namin DTA-2115B: DTA-2115B/ 	eboot without powercycle for the DTA-2154 icense Programming (DtDevice::SetLicenseFromFile, DtDevice::SetLicenseFromString) 0: Performance improvements for 4K 0: Support for teletext decoding from 625I50 signals 0: Support for audio frame number when no audio control packets are available 0: DtMxRawConfigSdi::m_LineAlignment set to -1 (no alignment) did result in data



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	 DTA-2131: M DTA-2180: A DTA-2180: A DTA-2180: A 	Power level for 8x8MHz mode was incorrect for DVB-T2 and DVB-C2 More improvements for 1.7MHz adjacent channels were needed audio pass through configuration was failing added encoder limitation: max 2 AAC audio channels for 1080p H.264 configurations added 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	Support for DSupport for D	OTA-2115B 8x 8MHz VHF/UHF channel modulation (HW8CH option) OTA-2115B GPS clock synchronisation OTA-2115B Phase noise emulation OTA-2180 H.264 HD Contribution Encoder for PCIe
	DTU-315: didDTU-315/DTDTA-2131: d	Scan returned no NICs when more than 20 NICs were present d not output a signal at low symbol rates (A-2111/DTA-2115: power level for Multi-channel modulation (SWMC) was incorrect difficult 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	Drivers:	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:	or DTA-2180 H.264 HD Contribution Encoder for PCle performance improvements for 4K channel software modulation
	 DAB playout res GetlpStats m_N IPv6 receive for Possible applice 	z-bit in audio samples was set for both channels of a channel sulted in audio artefacts when play DAB ETI file containing audio reconfiguration lumlpPacketsReceived was not incremented when header identification field was zero UDP resulted in a crash ation hang was seen occasionally due to race condition in DMA abort AM annex was not reported correctly in StreamXpert
		es: stall fix for Ubuntu 14.04 h 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 later Bug fixes: DtOutpChannel Matrix API 2.0 Matrix API 2.0 Matrix API 2.0 Matrix API 2.0 On Matrix API 2.0 On Matrix API 2.0 On Matrix API 2.0	ew DVB-C2 statistics for DTU-238 and DTA-2138(B) test DTU-238 hardware revision 1 rel::SetFailsafeConfig did return invalid value on DTAPI_IOCONFIG_FAILSAFE ::GetStatistics did return unclear error when tuning action was still in progress b: Number of dropped frames was not accurately reported for DTU-351 b: No error was returned when configuring raw SDI input for multi-link b: Out-of-memory issue was seen when call-back on input-only matrix was to slow VB-S2 outputs was failing due to a DTAPI change in Aug2015 SDK rmware upgrade was failing for latest DtInfo version

SDK version	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 the present on startup DTU-236/238: SpectrumScan was failing when start frequency was near the minimum DTU-236/238: SpectrumScan improvements for duration DTU-351: DtDevice::DetectVidStd was not implemented DTA-2131: RfLevel measurement was incorrect caused by latest DtapiService changed DTA-2138B: RfLevel measurement was incorrect offset DTA-2138B: RfLevel was having an incorrect offset DTA-160/2160: SDI over IP transmit was not working DTA-2152/2154/2174: Genref port was not configurable when a port has genlocked DTA-2152/2154/2174: driver was failing when configuration in the registry was inversed 	es rt number on configured
	 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	SDK version 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	DTU-351 supp Added DtDevi Added DtDevi Added DtDevi Bug fixes: Documentatio DtInputChann DtDemodEven Matrix API 2.0 Matrix API 2.0 Matrix API 2.0 Matrix API 2.0 DtSdiUtlity Tak DTU-236A did DTU-238 did DTU-2131: co DTA-2131: co	G level B. NOTE: requires DTA-2174 firmware version 3. ce::DetectVidStd() capable of detecting 4K video standards and link number ce::GetTemperature(), DtDevice::GetFanTemperature() is now deprecated In for DtInputChannel::GetConstellationPoints() points ranges were incorrect. cel::SpectrumScan() for DTU-236A/DTU-238 was not working properly to DTAPI_EV_TUNE_FREQ_HAS_CHANGED was not triggered in some conditions: Possible corrupted audio was seen for SD signals: Wrong audio status bits for DtMxAudioChannelStatus:: GetPcmNumBits(): Invalid BCH was inserted for HD audio packets: Possible crash when DtMxRowConfig::m_Enable was set to false to be Of Contents size was too small deport incorrect levels in some cases fail to lock in certain situations configuring more than two DTA-2131 units in one PC did result in an error TA-2174: PSF input formats were not detected 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 biService uses statistic caching to significantly improving speed of demodulator related al methods (e.g. GetStatistics or SetTunerFrequency)
	continuity in a	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 surrival 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 version	Apr2015	
Versions	DTAPI: Drivers: DtapiService:	v5.13.0.54 Dta v4.13.0.180, DtaNw v3.5.0.28, Dtu v4.5.1.57 v2.2.15.39
Changes	DTA-2162 • Full support for IS • Matrix API 2.0 • DTA-2111: D' • DTA-2111: D' • DTA-2115: U Windows only bu • DTAPINET: Dt Linux only bug fit • Enumerating of • Makefile orde	InpChannel::ReadFrame call was broken

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	Hot Fixes: • DTA-2154 Rev 4: Fine-tuned FAN control settings to make sure FAN does not run faster than necessary for lower temperatures • DTA-160/2160/2162: FEC reconstruction logic did not restore all packets it could potentially repair



SDK version	n 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	 New features: Support for dual channel software modulation; new license available for DTA-2111/DTA-2115 Support for HD-SDI Progressive Segmented Frame (PSF) formats. NOTE: requires latest firmware versions for DTA-2152 (V2) and DTA-2154 (V5) Matrix API 2.0: RGB support Support for DTA-2154 hardware revision 4.0 GENREF IO-config no longer takes a reference video standard as par-extra0 Matrix API 2.0: added a frame arrival timestamp to DtMxFrame Support for DTA-2152 firmware version 2 and DTA-2154 firmware versions 4/5
	Bug fixes: Possible crash on older CPU's (that did not support SSE3) LocalNIC 127.0.0.1 loopback did not work when IP cable was disconnected Matrix API 2.0: The 3G-outputs in a 4K matrix row were not always in-sync with each other Matrix API 2.0: Possible corruption of received ancillary data for 3G-SDI signals Matrix API 2.0: Checksum was missing on DtMxFrame::AncGetPacket Matrix API 2.0: Improved performance of ancillary data generation Matrix API 2.0: Improved performance of ancillary data generation Matrix API 2.0: DtMxFrame::AncGetPacket failed for audio ancillary data DtFrameBuffer::AncAddAudio/AncCommit was significantly slower for fractional SDI standards DTAPI.NET was missing previous DTAPI changes, like DVB-S2x and DtDvbCidPars 204 bytes DVB-S modulation resulted in incorrect TS-rate DTA-2107: 204 bytes playout was failing (remark: TxMode MIN16 is required) DTA-2115: DVB-S2X errors were generated for VCM stream with VLSNR and other modcods DTA-2139: QAM-B tuning was sometimes failing for some high frequency signals DTA-2152: Fixed genlock alignment, to ensure outputs are aligned within 1.5us of the genlock reference
	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	New features: Support for the DTA-2174 (Quad 3G/HD-SDI / ASI Ports with Genlock Adapter) 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. DTA-2115: Support for DVB carrier identification for satellite using DtOutpChannel::SetModControl(DtDvbCidPars) 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: 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 versio	n 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	SDK version 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	 New features: Initial support for the DTA-2174 (Quad 3G/HD-SDI / ASI Ports with Genlock Adapter) Support for runtime changes to channel modelling settings (i.e. no need to stop modulation anymore) Support for extra option to force link IP speed to 1Gbps Support for DVB-S2 16/32-APSK constellation shape configuration DTA-2115: Optimized DMA performance, so that card can be used in PCle gen2 slots at maximum sample rates DTA-2154: Reduced time needed to achieve genlock DTA-2154: Support for ancillary data checksum inserter 		
	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		
	 Non-backwards compatible API change (<u>a code change might be required!</u>): 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). 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) 		
	 Linux only bug fixes: Dta driver did not compile for Linux kernel versions >= 3.13 DTA-2160 network port did not function for a network configurations were only 2 interfaces descriptions were found 		



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: 	
	 DTA-2154 ASI input did not work DtapiGetDeviceDriverVersion(DTU) did return DTAPI_OK when no DTUs were present 	

SDK version 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 DtFrameBuffer::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	
	Added ini file mechanism which specifies the default IO-configuration values for a card	