## DekTec SDK REVISION HISTORY







**DekTec SDK Revision History** 

TAPI: v5.38.0.136 rivers: Dta v4.27.6.265, DtPcie v1.6.0.149 DtaNw v3.5.10.41, Dtu v4.13.6.83 tapiService: v3.7.1.84 ew features: DTA-2172/74B: Support for per port pixel offset, relative to a Genlock reference
ug 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: Drivers: DtapiService:	v5.37.0.134 Dta v4.27.5.264, DtPcie v1.5.0.128 DtaNw v3.5.10.41, Dtu v4.13.6.83 v3.7.0.83
Changes	DTA-2132: Aut Linux only feature:	
	<ul> <li>Synchronized D</li> <li>DTA-2115/DTU</li> <li>DTA-2132: Lov</li> <li>DTA-2132: Inv</li> <li>DTA-2152: Pos</li> <li>DTA-2172/75:</li> </ul>	proved efficiency of YUV422P2_16B to UYVY422_10B conversion DTAPI .NET with DTAPI, added amongst others ATSC3.0 modulation J-315: Corrected Nov2019 fix for ATSC3.0 ALP packets larger than 4096 bytes w SNR and lock issue could occur alid statistics could have been returned ssible SDI lock issue was seen DtDevice::GetRefClkCnt did return DTAPI_E_NOT_SUPPORTED senlock for the 3G-ports fixed
	DtPcie driver di  Support for DTA-2	es: id not build on Ubuntu 19.10 id report IOMMU errors and no data was received for some server configuration 2174B requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed 88 and Visual Studio 2010 DTAPI libraries are no longer distributed



SDK version	November 2019	
Versions	DTAPI: Drivers: DtapiService:	v5.36.3.130 Dta v4.27.4.262, DtPcie v1.4.0.111, DtaNw v3.5.10.41, Dtu v4.13.6.83 v3.6.1.82
Changes	New features: Support for DT. Support for Vis Matrix API: Setl DTA-2132: Imp DTA-2137C: Ir DTA-2172/75: Bug fixes: DTAPI classes r DtOutpChanne the last frame of DTU-351: Disc DTA-2115/DTU DTA-2131: And DTA-2132: Dat DTA-2172: Mis DTA-2172: Mis DTA-2172: Dtf DTA-2172/75 DTA-2175: Set Linux only bug fixe DTA-2175: Ou controlling the	loConfig option to enable/disable automatic black frames insertion proved tuning configuration for IQ port improved power level calibration is Added DtDevice::SetTxClockOffset() for precise control of the transmit clock returned unclear error codes when using an incompatible DtPcie driver its did repeat the last few SDI frames when an underflow occurred but should repeat conly its abled auto correction of errors (CRC checksum) in SDI input signal U-315: ATSC3.0 ALP packets larger than 4096 bytes were not supported other process could stop main data processing (seen using DtInfo and StreamXpert) its reception was not possible without explicitly setting Rx-Mode using SetRxMode() issing audio samples in 3G SDI level B output Pcie driver didn't update after installing DtPcie installer v1.3.0 ASI-input channel occasionally returned an invalid timestamp 4:2:0 video processed by the Matrix API had jagged edges in the SDI output the RowConfig did fail when more than one VPID overrule was configured for a 4k signal es:
	Support for DIA-	2274B requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed

SDK versio	n 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-2175)  • DTA-2115B: Support for the 2 types of noise generators (requires firmware v2)  • DTA-2131: Support for larger ATSC sample rate offsets  Bug fixes:  • NicInpChannel methods ClearFlags() and GetFlags() were missing	
	<ul><li>DTA-2131: S</li><li>DTA-2131: A</li><li>DTA-2131: In</li><li>DTA-2136/39</li></ul>	rds: noise generation was not working for IQ-direct mode TMP2 RX-mode was missing dvDemod::OpenStream() function returned unclear error on no license nproved ATSC 3.0 demodulator for adjacent channel interference P: tuner offset for possible lock delay was accidentally removed in SDK Jan2019 release ailsafe functions were not available
	Linux only New f  Driver suppor	features: t for linux kernel v5
	Support for DTA	a-2132 requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed



SDK versio	n 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-2175: Support for Transparent Packets was missing
	<ul> <li>DTA-2175: The video configured for NV12 (=DT_PXFMT_YUV420P2_8B) was corrupted</li> <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> </ul>
	Linux only bug fixes:  • DtapiService connection errors did occur after a long time  • GCC5.1 DTAPI binaries were not correctly build
	Support for DTA-2172 requires Visual Studio 2013 or higher and the 64 bit DtPcie driver installed

SDK versio	n 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	Bug fixes:  DtapiService  DTA-2131: A  DTU-315: DT  Linux only bug f  DTA-2136 At  DTA-2160/2	tachToPort did hang in some cases 162 DtaNw driver did not build on Linux kernel >=v4.20
		A-2175 and DTA-2139B requires Visual Studio 2013 or higher and the new 64 bit D



SDK version	n Jan2019
Versions	DTAPI: v5.32.0.115 Drivers: Dta v4.27.0.256, DtPcie v1.0.9.55 DtaNw v3.5.9.40, Dtu v4.13.3.80 DtapiService: v3.5.0.75
Changes	New features:  • Support for DTA-2175 HD-SDI/ASI Input+Output with Relay Bypass for PCIe  • DTA-2115B/DTU-315: option to (re)set the ATSC 3.0 Time Information  • DTA-2131: ATSC 3.0 L1B and L1D constellation support  • DTA-2131: ATSC 3.0 output of raw BB-frames support  • DTA-2174/79: Quad Link (DTAPI_CAP_QUADLINK) capability to simplify configuration of 4K
	Bug fixes:  • Unexpected DTAPI_NOT_SUPPORTED on SetModControl() was reported  • SMPTE-352 descriptor insertion was not disabled when using DtOutputChannel for SDI HD cards  • DTU-245: DtInpChannel::Read() junk bytes were seen at start of the buffer  • DTU-315: DTAPI_E_INVALID_LEVEL was reported when Output Level was configured during playout  • DTU-315: DTAPI_TX_DMA_UFL was sometimes reported for DVB-S2X/ISDB-S3  • DTA-2115B/DTU-315: MISO signal was not correct for ATSC3.0  • DTA-2115B/DTU-315: no error code on SetModPars() containing an ATSC 3.0 PLP collision  • DTA-2115B: SFN TOO_LATE error was seen at specific sample rates  • DTA-2152: Doubly Buffered configuration did not work  • DTA-2182: DtapiService communication error did occur resulting in no license points available  • DTA-2195: Line doubling on 4K output was seen for DT_PXFMT_YUV422P_16B
	<ul> <li>Linux only New Features:</li> <li>GCC4.8 and GCC5.1 DTAPI binaries are now distributed; adding full C++11 support and better support for latest distributions</li> <li>For Linux GCC4.8.5 or higher is required</li> </ul>
	Support for latest boards (DTA-2175/DTA-2139B) requires Visual Studio 2013 or higher and the new 64 bit DtPcie driver 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: ide Linux only bug fix • DTA-2160/62	OTU-315: support for ISDB-S3 modulation released  entical multicast reception could fail for IP channel 16 <sup>th</sup> res:  : DtaNw build error for CentOs 7.5  O8 and Visual Studio 2010 support will be discontinued from November 1th 2018

Versions	DTAPI: Drivers:	v5.30.0.108	
	DtapiService:	Dta v4.26.2.251, DtaNw v3.5.7.38, Dtu v4.13.1.77 v3.4.1.71	
Changes	New features:  • Added support for DTA-2131 new licenses: XPRT (C2Xpert T2Xpert, Atsc3Xpert support), RXAB (Basic), RXA3 (ATSC 3.0) and RXAT2 (DVB-T2)  • Matrix API 2.0: Support for getting/setting the AFD (RP186-2008)  • Matrix API 2.0: AncGetPacket wildcards and selected range of lines parameters added  • DTA-2115B/DTU-315: Initial support for ISDB-S3 modulation  • DTA-2131: ATSC 3.0 support for reception of ALP-packets up to 64K byte  • DTA-2131: ATSC 3.0 support for 2016 and 2018 LMT/RDT ALP encapsulation modes  • DTA-2195: DtAvOutput supported HDR formats added in DtHdmiTxStatus struct		
	<ul> <li>Matrix API 2. disruption in</li> <li>Matrix API 2.</li> <li>DTA-2136: F</li> <li>DTA-2162: N</li> <li>DTA-2165: I</li> <li>DTA-2195: I</li> <li>DTA-2195: F</li> </ul>	0: Timing of generated teleletext waveform was not correct 0: Sometimes a segmentation fault in MxHdAncParser::DeEmbedAudio was seen on a the input signal 0: AES validity bit was not ignored like specified when extracting audio as AES3 samples frequency offset to lock was needed when analog channel was active Multicast without source specified was not possible for SSM IP address range 160: GetFifoLoad() could be incorrect for IP playout In some cases 2160P24 displays were not detected DTAPLE_INVALID_LNKSTD on DtMxProcess::Start for 4K could be seen HdmiTx SCDC initialisation fails sometimes after hot plug detect	
	• DTA-2152\7 SDK change	fixes: 4\79\95: DTAPI_E_OUT_OF_MEMORY was seen on ASI playout due to Feb2018 Linux	
	Visual Studio 2	008 and Visual Studio 2010 support will be discontinued from November 1th 2018	



SDK version	on Feb2018	
Versions		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: L1-</li> <li>Bug fixes:</li> <li>DTA-2115B: Q</li> <li>DTA-2131: QA</li> <li>DTA-2154: Rok</li> </ul>	for DTA-2182 Dual H.264 Encoder Support for WSS and Teletext output detail version 1 support added for ATSC 3.0 demodulator  AM-B signal was inverted M-B bitrate and timestamps were 0 sustness improvement for possible hang seen on multiple video standard switches sible invalid FIFO-load was reported on first call
	<ul><li>Dta and Dtu dr</li><li>DtaNw driver b</li></ul>	es: d generate a lot of DtapiDemoSvc Pipe files in /Tmp folder ever build errors were seen for Fedora 27 (kernel v4.14) uild errors were seen for RedHat/CentOs 7.4 Kernel page fault was seen for some Linux distributions



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 0 DtlnpChannel Matrix API 2.0 Matrix API 2.0 DTA-107: Set DTA-2115/D1 DTA-2131: A DTA-2131: A DTA-2131: A DTA-2131: A DTA-2131: A DTA-2131: In DTA-2180: Pc	Putput::SetHdmiAudioChannel for DTA-2195 De: Support for Line 21 CEA-608 CC output De: Support for ancillary data VPID configuration per frame; DtMxAuxConfigSdi::m_Disassing should be set. Decure boot driver support Deport for QAM-B demodulation  GUID is now using a default unique value, but could still be overridden Described in the configuration of the properties of t

SDK version	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: N</li> <li>Bug fixes:</li> <li>DTA-2131: N</li> <li>DTA-2195: d</li> <li>DTU-351: Wi</li> <li>Linux only bug fi</li> <li>DTA-2160/62</li> <li>DTU-315: DV</li> </ul>	Output::SetHdmiColorimetry for DTA-2195 Maximum number of LDPC iterations increased to improve performance  IO_SUCH_DEVICE errors were seen in case of enabled "Windows fast startup" river 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	New features:  Support for DTA-2195: 12G SDI input + output with HDMI-2.0 output  DTU-315: Linux support  Bug fixes:	
	<ul><li>Matrix API 2.0:</li><li>DTAPINET Dtlr</li></ul>	: Possible crash was seen for 32 bit VS2008 and VS2010 configurations pChannel::SetErrorStatsMode was missing reading issues could occur for calls like SetTunerFrequency(), Tune()

SDK version	on 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/0  DTA-2154/2  DTA-2180: S  DTA-2195 12  Bug fixes:  Matrix API 2.0  DTA-2131: G  DTA-2160/2  Linux only bug f  Dta driver bu  For Fedora 2  Matrix API 2.0  MATRIX API 2.0	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 2G-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 ixes: ild 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: Support for 8-VSB demodulation  DTA-2131: Support for QAM-A and QAM-C demodulation  DTU-315: Support for DVB-CID		pport for QAM-A and QAM-C demodulation
	<ul> <li>ATSC 3.0 dem</li> <li>DTAPINET DtS</li> <li>ISDB-T module</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>	nodulator issue was seen when using guard interval 12_4864 nodulator 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: For 4K level B audio data/control packets were not always located in the correct link Continuous Wave configurationaid result in 3dB offset stential DVB-T2 synchronisation issue was seen after cable disconnect-connected 37/2139: Constellation points were not in range of -16k+16k publy buffered mode was not working for firmware version V3 62: VLAN configuration using SetIpPars was not working GOD was seen in a specific condition on loop-through and multicast IP addresses des:



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: Su</li> <li>Bug fixes:</li> <li>VLAN driver w</li> <li>Matrix API 2.0</li> <li>DTA-2115B: 8</li> <li>DTA-2138B: R</li> <li>DTA-2138(B):</li> <li>DTA-2160/21</li> </ul>	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

SDK version	on Sep2016		
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>Matrix API 2.</li> <li>DT_PXFMT_U</li> <li>DTA-2174: S</li> <li>DTA-2180: I</li> <li>Linux only bug f</li> <li>Lock up was</li> </ul>	Signal detected but no new frame interrupts after short signal interruption in some rare cases input standard detection on HDMI port was failing fixes:  seen on CentOS 7 HP DL380 G9 server	
l	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: D 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 2: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) sectrum inversion for DVB-C was incorrect pectrum inversion measurement was incorrect river installer failing when multiple DTA-2139 units are installed 174: 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	<ul> <li>DTA-2131 A</li> <li>Support for r</li> <li>Support for L</li> <li>Matrix API 2.</li> <li>DTAPI namin</li> <li>DTA-2115B:</li> <li>DTA-2115B/</li> </ul>	nd DTU-315 ATSC 3.0 modulator support TSC 3.0 demodulator support nultiple source IP address filtering using new struct DtIpPars2 override of default gateway address DTU-245B eboot without powercycle for the DTA-2154 cicense 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 size of 1 line 0: RGB->UYVY conversion used wrong constants for BT709 colorspace 0: WSS parsing failed on some valid streams 0: YUV_422P_16B input did corrupted data in V plane ag 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 SetTunerFrequency 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: A</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 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	New features:  • Support for DTA-2115B 8x 8MHz VHF/UHF channel modulation (HW8CH option)  • Support for DTA-2115B GPS clock synchronisation  • Support for DTA-2115B Phase noise emulation  • Full support for DTA-2180 H.264 HD Contribution Encoder for PCIe	
	<ul><li>DTU-315: dic</li><li>DTU-315/DTA</li><li>DTA-2131: dic</li></ul>	Scan returned no NICs when more than 20 NICs were present a not output a signal at low symbol rates A-2111/DTA-2115: power level for Multi-channel modulation (SWMC) was incorrect ifficult 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  New features: Initial support for DTA-2180 H.264 HD Contribution Encoder for PCle Matrix API 2.0: performance improvements for 4K DTU-315 dual channel software modulation		D: performance improvements for 4K
	<ul> <li>DAB playout</li> <li>GetlpStats m</li> <li>IPvó receive f</li> <li>Possible appli</li> </ul>	D: z-bit in audio samples was set for both channels of a channel resulted 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 ication hang was seen occasionally due to race condition in DMA abort QAM annex was not reported correctly in StreamXpert
	· ·	xes: install 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	<ul> <li>Support for lot</li> <li>Bug fixes:</li> <li>DtOutpChan</li> <li>DtInpChanne</li> <li>Matrix API 2.0</li> <li>Matrix API 2.0</li> <li>Matrix API 2.0</li> <li>DTA-2107: D</li> </ul>	ew DVB-C2 statistics for DTU-238 and DTA-2138(B) stest DTU-238 hardware revision 1  nel::SetFailsafeConfig did return invalid value on DTAPI_IOCONFIG_FAILSAFE el::GetStatistics did return unclear error when tuning action was still in progress D: Number of dropped frames was not accurately reported for DTU-351 D: No error was returned when configuring raw SDI input for multi-link D: Out-of-memory issue was seen when call-back on input-only matrix was to slow DVB-S2 outputs was failing due to a DTAPI change in Aug2015 SDK irmware upgrade was failing for latest DtInfo 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 versio	n 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
	<ul> <li>Matrix API 2.0: performance improvements for 4K input + output (V210)</li> <li>Matrix API 2.0: performance improvements for DTU-351</li> <li>Matrix API 2.0: Assert was seen for DTU-351 used in debug mode</li> <li>Matrix API 2.0: SD audio parsing was resulting in a crash</li> <li>Matrix API 2.0: callback was not called (with DT_FRMSTATUS_NO_SIGNAL) when there was no input present on startup</li> <li>DTU-236/238: SpectrumScan was failing when start frequency was near the minimum frequency</li> <li>DTU-36/238: SpectrumScan improvements for duration</li> <li>DTU-351: DtDevice::DetectVidStd was not implemented</li> <li>DTA-2131: RfLevel measurement was incorrect caused by latest DtapiService changes</li> <li>DTA-2138B: RfLevel was having an incorrect offset</li> <li>DTA-2138B: RfLevel was having an incorrect offset</li> <li>DTA-160/2160: SDI over IP transmit was not working</li> <li>DTA-2162: for Source Specific Multicast only IP address was configurable not the Port number</li> <li>DTA-2152/2154/2174: Genref port was not configurable when a port has genlock=on configured</li> <li>DTA-2152/2154/2174: driver was failing when configuration in the registry was invalid</li> <li>DTA-2174: Genlock was not calibrated (a few lines offset)</li> </ul>
	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



Versions         DTAPI:         v5.15.0.60           Drivers:         Dta v4.14.0.194, DtaNw v3.5.0.28, Dtu v4.7.0.61           DtapiService:         v3.0.1.46              Changes         New features:	SDK version	SDK version June2015			
Changes New features:	Versions	Drivers: Dta v4.14.0.194, Dta	nNw v3.5.0.28, Dtu v4.7.0.61		
Support for 3G level B. NOTE: requires DTA-2174 firmware version 3.  DTU-351 support for Linux  Added DtDevice::DetectVidStd() capable of detecting 4K video standards and link number  Added DtDevice::GetTemperature(), DtDevice::GetFanTemperature() is now deprecated  Bug fixes:  Documentation for DtInputChannel::GetConstellationPoints() points ranges were incorrect.  DtInputChannel::SpectrumScan() for DTU-236A/DTU-238 was not working properly  DtDemodEvent DTAPI_EV_TUNE_FREQ_HAS_CHANGED was not triggered in some conditions  Matrix API 2.0: Possible corrupted audio was seen for SD signals  Matrix API 2.0: Wrong audio status bits for DtMxAudioChannelStatus:: GetPcmNumBits()  Matrix API 2.0: Invalid BCH was inserted for HD audio packets  Matrix API 2.0: Possible crash when DtMxRowConfig::m_Enable was set to false  DtSdiUtlity Table Of Contents size was too small  DTU-236A did report incorrect levels in some cases  DTU-238 did fail to lock in certain situations  DTA-2131: configuring more than two DTA-2131 units in one PC did result in an error  DTA-2154/DTA-2174: PSF input formats were not detected  DTA-2152/DTA-2154/DTA-2174: No data was received after some fast input switch conditions	Changes	New features:  Support for 3G level B. NOTE: required by the properties of the provided by the	GetConstellationPoints() points ranges were incorrect. DTU-236A/DTU-238 was not working properly GQ_HAS_CHANGED was not triggered in some conditions ratio was seen for SD signals bits for DtMxAudioChannelStatus:: GetPcmNumBits() red for HD audio packets DtMxRowConfig::m_Enable was set to false as too small in some cases truations To DTA-2131 units in one PC did result in an error mats were not detected		

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	DtInpChannel Bug fixes:  • DTA-2115: continuity in elements  • DTA-2137: felents  • DTA-2154: continuity in elements  • DTA-2154: continuity in elements	oiService uses statistic caching to significantly improving speed of demodulator related el methods (e.g. GetStatistics or SetTunerFrequency)  rossing the 999↔1000Mhz and 1399↔1400Mhz frequency boundaries caused a dis-



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 Support for ISI  Matrix API 2.0  IP RTP receive  Possible race of DTA-2111: DN  DTA-2115: Ur  Windows only bu  DTAPINET: Dtl  Linux only bug fix  Enumerating of Makefile order	support for v210 for 10-bit video (DT_PXFMT_V210)  : m_DataFormat is removed in various structs, functionality now part of m_PixelFormat  : Audio input for 4K was not processed correctly  : Deadlock on DtMxProcess:Stop() was seen in exceptional cases  : Minimum end-to-end delay increased by 1 frame, default end-to-end delay increased  : Stability improvements especially on systems with a heavy CPU/memory load delay seen on switch of input streams  : andition in loConfig when set from multiple applications, for example on SDI IOSTD  /B-C symbolrate < 4MBaud did not work  adefined signal for frequency changes 999-1000MHz and 1399-1400MHz  g fixes:  npChannel::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: FEC reconstruction logic did not restore all packets it could potentially repair



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	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	
	<ul> <li>DTU-351: Calling DtFrameBuffer::AncGet* twice with the same frame number caused an DTAPI error</li> <li>DTA-2115: DVB-T2 single PLP was not working without DVB-T2 (multiPLP) license</li> <li>DTA-2115: DVB-S, DVB-S2 and QAM levels were not correct</li> <li>DTA-2152: Genlock was misaligned for several formats (720p50 does still have misalignment)</li> <li>DTA-2154: Configuring port 4 as double-buffered from port 3 was no possible</li> <li>DTA-160/2160: A zero in a multicast address was treated as a wildcard</li> <li>Linux only bug fixes:</li> <li>IP V6 support was not working correctly</li> </ul>	



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 versio	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-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		

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