## DekTec SDK REVISION HISTORY







## **DekTec SDK Revision History**

SDK version June2017		
Versions	DTAPI: v5.26.0.96 Drivers: Dta v4.23.0.240, DtaNw v3.5.5.36, Dtu v4.12.0.73 DtapiService: 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:  • Matrix API 2.0: Possible crash was seen for 32 bit VS2008 and VS2010 configurations  • DTAPINET DtInpChannel::SetErrorStatsMode was missing  • DTA-2131: Threading issues could occur for calls like SetTunerFrequency(), Tune()	

	DTAR	5.05.0.04
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 2.1  Matrix API 2.1  Visual Studio  DTA-2115B/1  DTA-2154/2  DTA-2180: S  DTA-2195 12  Bug fixes:  Matrix API 2.1  DTA-2160/2  DTA-2160/2  Linux only bug f  Dta driver bu  For Fedora 2  Matrix API 2.1  MPORTANT 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 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:	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 0: For 4K level B audio data/control packets were not always located in the correct link Continuous Wave configurationdid result in 3dB offset otential DVB-T2 synchronisation issue was seen after cable disconnect-connected 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 SetlpPars was not working
	Linux only bug fi	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	<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_L</li> <li>DTA-2174: S</li> </ul>	uration option was missing for Windows 10  0: Crash when receiving SD-SDI, aux data enabled and a non-default pixel format  0: AES sample parity was not computed correct for HD streams  0: Possible assert when scaling SD-SDI signals  0: Incorrect VPID was used for 4K output (3G level B)  0: Lines were duplicated for a 4K output using the DT_PXFMT_YUV422P_8B pixel format  0: Columns were swapped on 4K sample-interleave output when configured as JYVY_8B  Signal detected but no new frame interrupts after short signal interruption in some rare cases input standard detection on HDMI port was failing	
	Linux only bug t  Lock up was	fixes: seen on CentOS 7 HP DL380 G9 server	
	IMPORTANT N Visual Studio 20	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 2: Output with pixelformat DT_PXFMT_UYVY422_8B causes application crash in driver on each SetIoConfig call (only applies for the Windows driver) 2: Potential inversion measurement was incorrect priver installer failing when multiple DTA-2139 units are installed 3: T4: Potential hang of DMA after call to detect video standard 3: 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:	· · · · · · · · · · · · · · · · · · ·
Changes	<ul> <li>DTA-2131 A</li> <li>Support for n</li> <li>Support for o</li> <li>Support for n</li> <li>Support for n</li> <li>Support for n</li> <li>Support for L</li> <li>Matrix API 2.</li> <li>DTAPI namin</li> <li>DTA-2115B:</li> <li>DTA-2115B/</li> </ul>	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	<ul> <li>DTA-2131: //</li> <li>DTA-2180: //</li> <li>DTA-2180: //</li> <li>DTA-2180: //</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	n 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></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 PCIe
	<ul><li>DTU-315: dic</li><li>DTU-315/DT</li><li>DTA-2131: d</li></ul>	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 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	on 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	
	<ul> <li>DAB playout</li> <li>GetlpStats m</li> <li>IPv6 receive f</li> <li>Possible appl</li> <li>DTU-236(A)</li> <li>Linux only bug f</li> <li>DtapiService</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 ixes: install fix for Ubuntu 14.04 ligh 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 la  Bug fixes:     DtOutpChanne     DtInpChannel     Matrix API 2.0     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)  test DTU-238 hardware revision 1  nel::SetFailsafeConfig did return invalid value on DTAPI_IOCONFIG_FAILSAFE  I::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  VB-S2 outputs was failing due to a DTAPI change in Aug2015 SDK  rmware 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  Bug fixes:
	<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-2135: in some cases DtapiService crash was seen using T2Xpert</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



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 sup     Added DtDev     Added DtDev     Added DtDev  Bug fixes:     Documentatio     DtInputChann     DtDemodEver     Matrix API 2.0     DtSdiUtlity Ta     DTU-236A did     DTU-238 did     DTA-2131: cc     DTA-2154/D	G level B. NOTE: requires DTA-2174 firmware version 3. port for Linux 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 0: Possible corrupted audio was seen for SD signals 0: Wrong audio status bits for DtMxAudioChannelStatus:: GetPcmNumBits() 0: Invalid BCH was inserted for HD audio packets 0: 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 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 el methods (e.g. GetStatistics or SetTunerFrequency)
	continuity in  DTA-2137: f  DTA-2154: c  DTA-2154: [	crossing the 999↔1000Mhz and 1399↔1400Mhz frequency boundaries caused a disthe 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 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  Matrix API 2.0  Matrix API 2.0  Bug fixes:  Matrix API 2.0  IP RTP receive  Possible race  DTA-2111: D  DTA-2115: U  Windows only bu  DTAPINET: Dt  Linux only bug fire  Enumerating of Makefile orde	linpChannel::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	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	<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>
	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: Assert was seen when starting SDI output as 1080i59.94  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-2131: DtAdvDemod MER and Impulse Response was incorrect for second MISO channel  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	

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	<ul> <li>DtapiService: v2.2.12.36</li> <li>New features: <ul> <li>Support for 20%, 25% roll-off for DVB-S modulation</li> <li>DTA-2131: DAB Transmitter ID support</li> <li>AncPacket class extended with m_LineNumber field</li> <li>Note: Line parameter removed from DtFrameBuffer::AncAddPacket old interface of AncAddPacket is marked as deprecated and will be removed in a future release</li> </ul> </li> <li>Bug fixes: <ul> <li>Dta crash could occur on application exit</li> <li>T2-MI input stream was not correctly modulated when IL-Type = 1</li> <li>T2-MI output through a virtual port was not working for DTA-2111 and DTU-215</li> <li>Registration for DT_EVENT_TYPE_GENLOCK did trigger an assert</li> <li>DtAdvDemod: For DVB-C2 all opened streams were closed on SetTunerFrequency()</li> <li>DtAdvDemod: Virtual input support did not work correctly</li> <li>DtAdvDemod: Did return DTAPI_OK on AttachToPort() when port was already in use</li> <li>DTU-351: Calling DtFrameBuffer::AncGet* twice with the same frame number caused an DTAPI error</li> </ul> </li> </ul>	
	<ul> <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 version	n 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	<ul> <li>New features:</li> <li>Support for DTA-2115 (All-Standard, All-Band Modulator) including DVB-S2x modulation</li> <li>SDK support for Visual Studio 2013 (VC12)</li> <li>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</li> <li>Support for DTAPI_STAT_SPECTRUMINV statistic for DTA-2136</li> </ul>
	<ul> <li>Bug fixes:</li> <li>In some cases invalid DVB-T2 GSE packets were sent</li> <li>Matrix API did not embed audio ANC packets in switching lines</li> <li>DtInpChannel::SetIpPars crashed when unicast addresses were specified in combination with seamless protection mode</li> <li>DTA-2152/2154: Driver did crash when IO Standard for GenRef port was set to SD-SDI</li> <li>DTA-2154: Analog genlock did not work</li> <li>DTA-2162: On high network transmit load the non real-time transmit stalled</li> <li>Linux only bug fixes:</li> <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 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-2131: Possible crash on detach of DVB-C2/T2 demodulator; introduced in Dec2013 release  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