## DekTec SDK REVISION HISTORY







## **DekTec SDK Revision History**

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-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 versio	n 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 unmy frames were incorrect  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	(a code change might be required!):
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- 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/N0 and Eb/N0 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	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	<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> </ul>	
	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



<ul> <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> </ul>
<ul> <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> </ul>
New Linux features:  • Added ini file mechanism which specifies the default IO-configuration values for a card

SDK version	on Dec2013
Versions	DTAPI: v5.5.0.38 Drivers: Dta v4.7.1.104, DtaNw v3.4.3.24, Dtu v4.4.7.46 DtapiService: v2.2.9.33
Changes	New features:  • DTU-236: Added support for GetTunerFrequency() and GetDemodControl()  • DTA-160/2160/2162: Support for specifying the source port for IP transmission  • DTA-2131: Support for new statistic DTAPI_STAT_FER_POSTBCH
	Bug fixes:  • QAM-B modulation produced inverted spectrum when channel modelling was enabled  • DTU-351: Frames were dropped on high CPU load  • DTU-351: Some PC's did have incidentally a frame drop  • DTA-2131: BER_PRELDPC and PER DVB-T2 statistics were not valid after DTAPI_STAT_LDPC_STATS call  • DTA-2131: DtAdvDemod port attach was failing introduced in SDK Oct2013  • DTA-2137: Re-attach could have failed with error DTAPI_E_INVALID_FREQ  • DTA-2154: Dta driver did sometimes crash on RS422 simultaneously read/write  • DTA-2154: Switching from fractional SDI standard to ASI resulted in an incorrect ASI stream  Linux only bug fixes:  • Dta driver did not build for 32 bit linux, introduced by SDK Nov2013 changes  • DtapiService could have crashed when long filenames processes were running  • DTU-236A: driver communication could have failed during initialization

SDK version	SDK version Nov2013	
Versions	DTAPI: v5.4.0.36 Drivers: Dta v4.7.0.102, DtaNw v3.4.2.21, Dtu v4.4.3.41 DtapiService: v2.2.8.31	
Changes	New features:  DTA-2154 official release including RS422 support  DTA-2131: Support for demodulation of complete DAB ETI using DtDabEtiStreamSelPars  DTAPI_STAT_DVBT2_L1DATA statistic extended with extra fields  Bug fixes:  Possible not supported error when SetloConfig() was called on DtInputChannel/DtOutputChannel  DtaNw network driver was stalling when network stack was too busy  Dta driver crash could have incidentally happen at startup up due to I2C register remap  DtInpChannel::SetRxMode() for IPRAW and STTRP was not working since Aug2013 release  DTU-351: FrmBufInputChannel:GetStatus() ClkDet return parameter was always -1  DTA-107: For some PC's DVB-S2 playout was failing in combination with DTA-2111 boards  DTA-2138: DVB-T2 L1 data modulation type was incorrectly set  DTA-2154: Invalid eeprom content could result in crash	



<ul> <li>DTA-2154: The reported ASI input rate was incorrect</li> <li>DTA-2154: ASI read with NumBytesToRead not a multiple of 32 was failing</li> <li>DTA-2154: ASI fifo was not cleared when going from RCV to IDLE and back</li> <li>DTA-2154: The reported TS-rate for ASI input was not corrected to 188 bytes for 204 bytes packets</li> <li>DTA-2154: Port was not (re-)configured when switching between ASI and SDI</li> </ul>
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SDK versio	n Oct2013
Versions	DTAPI: v5.3.0.35 Drivers: Dta v4.6.0.92, DtaNw v3.4.1.18, Dtu v4.4.2.40 DtapiService: v2.2.7.30
Changes	New features:  • DTU-351 official release  • DTA-2154 initial support
	Bug fixes: GetTsRateBps() was incorrect for RxMode STRAW SetRxMode did not return an error when DTAPI_TXMODE_SDI_16B was not supported Application restart could fail after application exception situation Data playout could fail after unclean stop and restart of application Multicast list was not updated correctly when configuring multiple VLAN's SDI reception of Huffman compressed active video was not working SDI DtOutpChannel:Write() could fail for specific frame-alignment Matrix API audio samples alignment issue for fractional video standards DTU-236: QAM tuner initialization was not completely correct DTU-236: limit of tuning frequency is 885MHz not 865MHz DTA-2131: PCR jitter for ISDB-T demodulation could be out of spec DTA-2131: ISDB-T emergency flag was not set correctly for IIP and dummy byte DTA-2131: Transport Error Indicator (TEI) flag was not set (not supported for T2/C2 HEM mode) DTA-2152: Reading 8-bit SDI data was not done correctly  Linux only bug fixes: DtapiService did not start automatically after unclean stop of DtapiService

SDK version Aug2013	
Versions	DTAPI: v5.2.4.31 Drivers: Dta v4.5.2.46, DtaNw v3.4.0.17, Dtu v4.4.0.38 DtapiService: v2.2.6.29
Changes	New features:  • VLAN support using manually installation of protocol driver DtaNwAp  • DTU-351 USB-3 HD-SDI input initial support  • Support for ISDB-Tmm modulation using DtMplpOutpChannel::SetModControl(DtlsdbTmmPars&)  • DTA-2162 does now have port id included in device description strings  • DVB-T demodulation statistic DTAPI_STAT_TPS_INFO including DVB-T Cell-ID information  • The number of DtDevice/DtChannel instances is no longer limited to 256
	Bug fixes:  • DtDevice::GeTGenlockState was missing since DTAPI v4.0 release  • Added private copy constructors to DTAPI classes to make sure that a copy will result in compile errors  • DtInpChannel::GetIpStat documentation updated; values are not reset after read  • DtInpChannel::GetTunerFrequency returned DTAPI_E_NOT_SUPPORTED  • DtaNw Promiscuous mode was not working  • DtIsdbtPars::RetrievesParsFromTs did not support 1- and 3-segments audio streams  • Certain T2-MI streams did not playout  • DTA-124: Crash could occur on 64 bit OS



<ul> <li>DTA-2111/DTU-215: MER was lower for DVB-C when Channel Simulator was disabled</li> <li>DTA-2137: DVB-S2 L3 input selection caused a long delay</li> <li>DTA-2137: DVB-S2 Multi Input Streams did not always lock (due to invalid ModType)</li> <li>DTA-2142: Calling DtOutpChannel::SetTstRateRatio was failing</li> <li>DTA-2152: Unsupported mode DTAP_RXMODE_SDI_ACTVID could be configured</li> <li>DTA-2152: Reading 8-bit SDI data could cause the DtInpChannel::ReadFrame to hang</li> <li>DTA-2160: DTAPI_E_OUT_OF_RESOURCES did sometimes occur after a lot of application restarts</li> </ul>
Linux only bug fixes:  • Dta driver did not compile on 64-bit CentOS 5

SDK version June2013		
Versions	DTAPI: v5.2.3.29 Drivers: Dta v4.5.1.44, DtaNw v3.3.0.15, Dtu v4.3.1.37 DtapiService: v2.2.5.27	
Changes	New features:  Windows SDK is now distributed using an installer containing all drivers, libraries and include files  Bug fixes:  DTE board could be reported twice when using multiple network cards and retrieving the available ports  DTE board was not reported when retrieving the available ports and user has no administrator rights  DTAPI documentation was incomplete for SetloConfig, DtStatitics and DVB-C QAM-128 limitation for DTA-2136 and DTA-2139  DTAPI_E_DRIVER_INCOMP was not returned on Attach when an incompatible driver was installed  DTAPI_E_NOLINK was not returned when no network connection was available  Visual Studio Express was not able to link DTAPI caused by an ATL dependency  Division by zero exception was thrown when using Huffman compression  DTA-2131: For ISDB-T demodulation a relock was not automatically re-acquired  DTA-2131: Retrieving the RF level statistic resulted in an error  DTA-2135: Demodulation of bad signals could fail caused by a FIFO overflow  DTA-2139: MER/SNR statistics were incorrectly calculated	
	Linux only bug fixes:  • Dta driver could crash when aborting the application	

SDK version May2013		
Versions	DTAPI: v5.2.2.26 Drivers: Dta v4.5.0.43, DtaNw v3.3.0.15, Dtu v4.3.0.36 DtapiService: v2.2.4.26	
Changes	New features:  Support for DTA-2162  Support for L3 input for DVB-S2 modulation  Support for DAB+/ T-DMB software demodulation  Support for ISDB-T software demodulation of all layers using TMCC  Support for extra Error statistics for DVB-T and ISDB-T software demodulation  Support for new DTA-2137 statistics: Link Margin, Es/N0, Eb/N0, Pre-LDBC BER, Occupied bandwidth and Roll-off factor  DTU-236A: Support for individually tuning of both tuners  Non-backwards compatible API change (a code change might be required!)  Statistics like SNR, MER and RF LVL that did support double and integer values now only support integer values  Bug fixes:	



<ul> <li>DtaNw driver installation was not executed when network port was active</li> </ul>
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- Dta driver could hang during shutdown or disable
- Unicast IP receive address in March release did only accept 0.0.0.0 and did not accept IP address of adapter
- DtInpChannel:ReadFrame blocked on SDI frame when no valid input signal was attached
- AdvDemod constellation points data stopped in case of a unlock-lock scenario
- Driver did not check if firmware reboot was allowed
- Visual Studio 2005 projects could fail building because of missing ATL reference
- DTE license file programming failed since SDK version Mar2013
- DTA-2136 and DTA-2139: Sometimes a value of -1 was returned for SNR
- DTA-2136: MER/SNR statistics were incorrectly calculated
- DTA-2137: 32-APSK performance was decreased since SDK version Aug2012
- DTA-2152: Video standard capabilities were not set for port 3 (GENLOCK reference port)

## Linux only bug fixes:

- DtapiService installation did not work for CentOS 6.3/6.4
- DTA-2160: CentOS 5.9 possible crash on IP port
- DTA-2160: Ethtool didn't work

SDK version Mar2013		
Versions	DTAPI: v5.2.1.24 Drivers: Dta v4.4.0.37, DtaNw v3.2.1.14, Dtu v4.2.3.35 DtapiService: v2.2.2.25	
Changes	<ul> <li>New features:</li> <li>Support for DtTslpPars Differentiated Services field (formerly Type Of Service) in the IP v4 header or Traffic Class field in the IP v6 header</li> <li>Support for DTE-3120 polarity control</li> <li>Support for DTE-3100 transmit on timestamp mode</li> </ul>	
	<ul> <li>Bug fixes:</li> <li>Some DVB-T2 modulation settings did not run on a Core Duo anymore (CPU load to high)</li> <li>DTE attach speed was slow</li> <li>IP packets were in some cases discarded because the packets were incorrectly recognized as VLAN packets</li> <li>DVB-T2 modulator was not ignoring the IN_BAND_B_FLAG for DVB-T2 version V.1.1.1</li> <li>SetTxControl was failing when using QAM-B and channel modeling</li> <li>FrmBufInpChannel:SetRxControl call could have resulted in deadlock</li> <li>Source Specific Multicast was limited to the IANA's SSM range for DTA-(2)160</li> <li>Added missing DtInpChannel ISDB-T and T2MI functions in DTAPI core documentation</li> </ul>	
	<ul> <li>Uncorrected blocks was not reset between calls to GetStatistics() using DTAPI_STAT_BADPCKCN for DTA-2136 and DTA-2139</li> <li>DTU-234: For some firmware versions a signal lock problem did occur</li> <li>DTU-234: Added missing statistics DTAPI_STAT_BER_PREVIT, DTAPI_STAT_BER_POSTVIT, DTAPI_STAT_BER_PRERS</li> <li>DTA-2131: Support for missing Rx modes: DTAPI_RXMODE_STRAP2, DTAPI_RXMODE_STRAW,</li> </ul>	
	<ul> <li>DTAPI_RXMODE_STTRP, DTAPI_RXMODE_TIMESTAMP32</li> <li>DTA-2131: DTAPI_FULL_RESET resulted in no data received anymore</li> <li>DTA-2131: ISDB-T SetDemodControl failed in some cases</li> <li>DTA-2131: DVB-T bandwidth 5MHz was not supported</li> <li>DTA-2137: Transport Error Indicator (TEI) bit was not set on packets with uncorrectable errors</li> <li>DTA-2138: DtInpChannel:Tune() returned timeout error when there was no input signal</li> <li>DTE-3114: Device was not found on DtapiDeviceScan</li> </ul>	
	Linux only bug fixes:  • DtaNw driver is now installed and loaded automatically  • DTU-236: RF level readings were unstable	



SDK version Feb2013		
Versions	DTAPI: v5.2.0.21 Drivers: Dta v4.3.0.35, DtaNw v3.2.0.13, Dtu v4.2.2.34 DtapiService: v2.2.1.22	
Changes	<ul> <li>New features:</li> <li>Advanced Demodulator API: support for DVB-T,-T2,-C2 and ISDB-T including measurements Please refer to DTAPI Manual and DTAPI Reference – Advanced Demodulator API documentation</li> <li>Changed Modulation capabilities and new Receiver capabilities and licenses: RXA (Advanced Demodulator), IQ, T2MI and GOLD RX Please refer to DTAPI 5.2 Releases Notes explaining how to adapt your application for these changes.</li> <li>Support for ATSC-MH modulation</li> <li>SDK support for Visual Studio 2012 (VC11)</li> <li>DtDvbT2Pars::RetrieveT2miRateFromTs calculates required TS rate for a given buffer with T2MI data</li> <li>New Statistics BER_PREBCH and BER_PRELDPC, renamed BER_BCH and BER_LDPC to BER_POSTBCH and BER_POSTLDPC</li> <li>DTA-160/2160: support for IPv6</li> <li>Support for DAB modulation</li> </ul>	
	Bug fixes:  IP header identification field value was not incremented for IP outputs  DVB-C2 modulator inserted invalid ISSY in case of HEM and NPD=1  Invalid DVB-C2 signal when using ACM + plp_header_counter=1 + odd number of XFEC-frames  DVB-T2-MI FEF sub-part not correctly encoded  Possible error when calling DtOutpChannel::GetFlags before DtOutpChannel:SetTxControl  SetIoConfig was not thread safe  GetFifoLoad returned wrong value for DVB-S2 when symbol rate was changed  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDevices an returned DTE device's that were not in DTAPI mode  DtapiDevices an returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DtapiDeviceScan returned DTE device's that were not in DTAPI mode  DTA-107 produced incorrect SNIR level for DVB-S2  DTU-215: boot time was slow  DTU-236: RF level was always returning around 396  DTU-245: port 2 could not be set in loop-through mode  DTA-2137: MER statistic for 16APSK and 32APSK was incorred  DTA-2137: Not all BER statistics were correct  DTA-2137: Not all BER statistic was incorred  DTA-2137: Not all BER statistic were correct  DTA-2138: DVB-C, interleaving parameter was not ignored by SetDemodControl  DTA-2138: DVB-C, interleaving parameter was not ignored by SetDemodControl  DTA-2139: Gannot attach to the DTE in DTAPI mode  Linux only bug fixes:  Compile warnings for DTA/DTU drivers  Dtu driver failed on udev version before v98  Possible system freeze when using IP port on CentOS 5.8  On 64-bit linux not all license were recognized  DtapiService installer didn't w	
	<ul> <li>On 64-bit linux not all license were recognized</li> <li>DtapiService installer didn't work when /tmp was not executable</li> </ul>	

SDK version Dec2012		
Versions	DTAPI: Drivers:	v5.1.0.19 Dta v4.2.0.33, DtaNw v3.1.0.12, Dtu v4.2.0.30



	DtapiService: v2.2.0.18
Changes	New features:  • DTU-236: Support for enabling/disabling equalizer  • DTA-2137: removed Frameld from L3 header (firmware V7)  • Added support for subtype field in DtDeviceDesc
	Bug fixes:  DTAPI_TX_CPU_UFL reported but should be DTAPI_TX_DMA_UFL  IPAT was very large for RTP stream including FEC and lost packets  Local NIC: the data was corrupted every time the RTP sequence number wraps  Linker warnings regarding missing .pdb files when linking to DTAPI debug version  DVB-C2 modulation: stopped when type 1 and type 2 data slices are mixed  DVB-C2 modulation: crashed when header_counter=1 and modulation <= 64qam  DVB-C2 modulation: the order of the ISSY fields generated for the first frame was not correct  DtFrameBuffer::AncAddPacket returns DTAPI_OK but AncCommit did not add the packet to the output  DtFrameBuffer::AncGetPackets never returns DTAPI_E_BUF_TOO_SMALL  DtInpChannel::GetStatus incorrectly reported -1 for AsiLock parameter  DtInpChannel::RegisterDemodCallback: possible fail on tuner event-register  DtInpChannel::Write(buf,0) caused a DTAPI crash  DtOutputChannel:Write(buf,0) caused a DTAPI crash  DTA-115: on certain PC's DMA performance caused OFDM modulation to stop working  DTU-215: device was not started on a "warm" reboot  DTA-2137: tuning to some DVB-S modulated streams was failing  DTA-2144: double-buffered output was not supported anymore  DTA-2152: bottom of frame showed a green line  DTA-2152: BSOD after enabling GENREF mode for one of the ports
	Linux only bug fixes:  • Multi-threading DTAPI usage could result in a crash  • Dtu0 symlink was not created for some Linux distributions

SDK version	on Oct2012
Versions	DTAPI: v5.0.11.17 Drivers: Dta v4.1.1.30, DtaNw v3.1.0.12, Dtu v4.1.2.26 DtapiService: v2.1.2.17
Changes	New features:  • Support for DTA-2138  • Optimized performance of Matrix-API audio and ancillary data embedding and de-embedding code  • Added support for add/removal event for USB devices
	Bug fixes:  DVB-T2/C2 modulation did not work  Failure to read licenses from DTE devices  DtapiHwFuncScan did not return a DTAPI_E_DRIVER_INCOMPATIBLE when an old driver is used  DtDeviceAttachToSerial did not return a DTAPI_E_DRIVER_INCOMPATIBLE when an old driver is used  DTA-160/2160: exception in Dta driver on system with 64GB ofRAM  DTU-236: DTAPI crash when DTU-236 is disconnected from USB bus  DTU-236a: DtInpChannel::SetTunerFrequency failed when try to tune to frequencies above 862 MHz  DTA-2107: spectrum of DVB-S output was inverted  DTA-2107: actual SNR level did not match applied level  DTA-2139: first call to AttachToPort was very slow  DTA-2152: error in audio embedding when embedding less than 4 channels in an audio group  Linux only bug fixes:  Stack corruption when reading data from a DTU device  SDK could still not be built on Red Hat Enterprise Linux 5 with kernel version 2.6.18



SDK version Sep2012		
Versions	DTAPI: v5.0.10.16 Drivers: Dta v4.1.0.29, DtaNw v3.1.0.12, Dtu v4.1.0.24 DtapiService: v2.1.0.15	
Changes	New features:  Support for DTU-236a (1GHz version)  DTU-236: support for reading BER, SNR, MER and constellation points  Genlock support for DTA-145/2144/2145  Support for controlling DTA-plus (VHF/UHF Booster/Attenuator for DTA-115)  Bug fixes:  DTA-2107: DVB-S spectrum was inverted  DTA-2136/2139: return sensible value for SNRs which are outside of the range that can be measured by demod chip  DTA-2152: failure to set IO-standard to 720p50  DTA-2152: VANC data was not committed in DtFrameBuffer::AncCommit  TS-rate returned for TS-over-IP streams received via a local-NIC was always ~10% to high  Non-exclusive attach of DtInpChannel object to a demodulator causes re-initialization of the port it is attached too	
	Linux only bug fixes:  • DTA-2111: setting the output level had no effect  • SDK could not be built on Red Hat Enterprise Linux 5 with kernel version 2.6.18  • Potential DMA data corruption, on 64-bit Linux, for cards that do not natively support 64-bit DMAs  • 32-bit DTAPI could not connect with 64-bit driver.  NOTE: the fix for this issue breaks backwards compatibility between the DTAPI and previous versions of the Dta, Dtu and DtaNw drivers (on 32-bit Linux configurations only)	



SDK version Aug2012		
Versions	DTAPI: v5.0.9.15 Drivers: Dta v4.0.14.27, DtaNw v3.0.7.11, Dtu v4.0.8.23 DtapiService: v2.0.9.12	
Changes	New features:  Support for DTA-2139  DTA-102: implementation for DtOutpChannel::SetPower  DTA-2137: support for firmware version V6  DTA-2137: support for C-version (with STV0900AAC)  DTA-2137: support for getting the spectral-inversion status  DtapiCheckDeviceDriverVersion now also detects the presence of pre V4 drivers  Added new EULA for Linux SDK  Bug fixes:  DtInpChannel::GetRxMode always returned 0 for IP ports  DtInpChannel::GetRxControl always returned DTAPI_RXCTRL_IDLE for IP ports  CPU overload when DtapiService was stopped while used  Crash in SetDemocControl if invalid ISDB-T parameters were passed to this function  Linux only bug fixes:  Unknown symbols when loading Dta, Dtu and DtaNw driver  DtapiService.bin installer only contained 64-bit version of DtapiService  DTA-2145: Kernel panic in ISR when Dta driver is loaded during system boot-up  "DMA: Out of SW-IOMMU space" in Dta driver	

SDK version Jul2012		
Versions	DTAPI: v5.0.8.12 Drivers: Dta v4.0.13.25, DtaNw v3.0.7.11, Dtu v4.0.8.23 DtapiService: v2.0.8.10	
Changes	New features: Support for DTA-2131  Bug fixes: DTA-2152: fixed timeout error for WaitFrame DTA-2136: added missing loop-through capability DTA-2137: added missing support for DTAPI_STAT_CNR DTA-2135/2137: added missing support for DTAPI_STAT_BER_PRERS & DTAPI_STAT_CNR DTA-2152: DtInpChannel::ReadFrame always retuned 10-bit frames, regardless of rx-mode settings DTA-2152: error in audio embedding when embedding less than 4 channels in an audio group DtapiHwFuncScan never returns DTAPI_E_BUF_TOO_SMALL when supplied buffer really is too small DTA-235: added missing support for DTAPI_STAT_BER_PRERS & DTAPI_STAT_CNR DTU-236: added missing support for DTAPI_STAT_CNR GetloConfig for DTAPI_IOCONFIG_LOOPTHR returned incorrect buddy port value Probe attach to DTE always failed	



SDK version Jun2012		
Versions	DTAPI: v5.0.7.10 Drivers: Dta v4.0.12.23, DtaNw v3.0.7.11, Dtu v4.0.8.23 DtapiService: v2.0.7.8	
Changes	Bug fixes:  AttachToPort, with the probe flag set, failed for DTEs  Could not set DTAPI_RXMODE_TIMESTAMP32 for DTE devices  Deadlock in DtFrameBuffer::WriteSdiLines  DtInpChannel::SetLnbVoltage always returned DTAPI_E_INVALID_ARG  DtIsdbtPars::RetrieveParsFromTs always sets m_Guard to 1/8  DVB-S2 capability was missing for DTA-2137  Exception in DTAPI which occurred when an application using the DTAPI was closed  Link errors due to missing symbols in VC9 version of the DTAPI  Memory leak in modulation code  Using SetloConfig to set a fractional IOSTD failed for the input of a DTA-2152  Updated FIFO load algorithm for a DTA-2152 in 'DtOutpChannel-mode'	

SDK version May2012	
Versions	DTAPI: v5.0.5.8 Drivers: Dta v4.0.11.20, DtaNw v3.0.7.11, Dtu v4.0.7.22 DtapiService: v2.0.6.7
Changes	Major new release of the entire SDK. Please refer to DTAPI 5.0 Release Notes in the SDK documentation for an overview of changes.