

SDK

| REVISION HISTORY

SDK

December 2012

DeKtec

SDK Revision History

SDK version Dec2012	
Versions	DTAPI: v5.1.0.19 Drivers: Dta v4.2.0.33, DtaNw v3.1.0.12, Dtu v4.2.0.30 DtapiService: v2.2.0.18
Changes	<p>New features:</p> <ul style="list-style-type: none"> DTU-236: Support for enabling/disabling equalizer DTA-2137: removed Frameld from L3 header (firmware V7) Added support for subtype field in DtDeviceDesc <p>Bug fixes:</p> <ul style="list-style-type: none"> 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 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::SetDemodControl did not accept -1 for ParXtra1 for QAM-B 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 <p>Linux only bug fixes:</p> <ul style="list-style-type: none"> Multi-threading DTAPI usage could result in a crash

SDK version 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	<p>New features:</p> <ul style="list-style-type: none"> 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 <p>Bug fixes:</p> <ul style="list-style-type: none"> 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 od RAM 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 <p>Linux only bug fixes:</p>

	<ul style="list-style-type: none"> 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
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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	<p>New features:</p> <ul style="list-style-type: none"> 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) <p>Bug fixes:</p> <ul style="list-style-type: none"> 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 <p>Linux only bug fixes:</p> <ul style="list-style-type: none"> 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. <p>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)</p>

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	<p>New features:</p> <ul style="list-style-type: none"> • 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 <p>Bug fixes:</p> <ul style="list-style-type: none"> • 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 <p>Linux only bug fixes:</p> <ul style="list-style-type: none"> • 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	<p>New features:</p> <ul style="list-style-type: none"> • Support for DTA-2131 <p>Bug fixes:</p> <ul style="list-style-type: none"> • 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 returned 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 • GetIoConfig 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: <ul style="list-style-type: none"> • 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 SetIoConfig 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 <i>DTAPI 5.0 Release Notes</i> in the SDK documentation for an overview of changes.