

# DekTec SDK

## REVISION HISTORY

**SDK**

Aug 2023



## DekTec SDK Revision History

The DekTec SDK for Linux requires GCC >7.5 and Linux kernel > 4.14.  
Supported Visual Studio versions are: VS2017, VS2019 and VS2022

For support of other versions see Dec2022 SDK revision history.

*Note: Dec2022 SDK does not support new DekTec adapters introduced in 2023 and later. Dec2022 SDK is a maintenance release to support older GCC and Visual Studio versions.*

SDK version August 2023	
Versions	DTAPI: v6.1.0.215 Drivers: Dta v4.28.9.286, DtPcie v3.1.0.349, Dtu v4.15.4.92 DtBb2 v1.0.1.11 DtaNw v3.5.13.44, DtPcieNw v1.0.0.55 DtapiService: v5.0.1.117
Changes	<p><b>New features:</b></p> <ul style="list-style-type: none"> <li>• Support for DTA-2111B Multi-Standard Cable/Terrestrial Modulator for PCIe</li> <li>• Support for DTA-2178 firmware v2 (NTSC genlock signals can now be used to genlock fractional (U)HD outputs)</li> <li>• Support prepared for FFmpeg (<a href="https://www.dektec.com/products/SDK/ffmpeg/">https://www.dektec.com/products/SDK/ffmpeg/</a>)</li> <li>• DTU-315/DTA-2116 Support for low-sample rates IQ output</li> <li>• DTU-331 added DVB-S2 CID support</li> </ul> <p><b>Bug fixes:</b></p> <ul style="list-style-type: none"> <li>• [Matrix API] trying to set 4 VPID's (one for each logical link in a 6G/12G signal) in DtMxAuxConfigSdi::m_Vpid resulted in a DTAPI_E_CONFIG_AUX_VPID error</li> <li>• DtapiDtHwFuncDesc2String() and DtapiDtDeviceDesc2String() did return undefined output string</li> <li>• DTU-331: DVB-S demodulation was not stable for some setups resulting in bit errors</li> <li>• DTU-331: Improvements on signal reception &gt; 1GHz</li> <li>• DTA-2110: DtInpChannel::GetTsRateBps returned incorrect rate</li> <li>• DTA-2116 Invalid RF-Levels were reported in specific cases</li> </ul> <p><b>Linux only changes:</b></p> <ul style="list-style-type: none"> <li>• ABI 0 DTAPI deliverables added</li> <li>• Fedora 38 drivers did not build</li> <li>• Linker warning DTAPI64.o: requires executable stack was reported</li> <li>• DtapiService was not stopped correctly</li> </ul>

SDK version June 2023	
Versions	<p>DTAPI: v6.0.1.214</p> <p>Drivers: Dta v4.28.9.286, DtPcie v3.0.0.345, Dtu v4.15.3.91 DtBb2 v1.0.0.10 DtaNw v3.5.13.44, DtPcieNw v1.0.0.55</p> <p>DtapiService: v5.0.0.114</p>
Changes	<p>New features:</p> <ul style="list-style-type: none"> <li>• Support for DTA-2110 10GbE NIC for SMPTE 2110</li> <li>• Support for DTU-331 Portable All-Standard RF Probe for USB-3</li> <li>• [Matrix API] timestamp added signalling the transmit time of a frame to DtMxFrame</li> <li>• DTA-2139C: support for ATSC1.0 GetConstellationPoints()</li> </ul> <p>Bug fixes:</p> <ul style="list-style-type: none"> <li>• [Matrix API] SDI input with pixelformat DT_PXFMT_YUV420P2_8B did crash</li> <li>• [Matrix API] creation of a crashdump for an application sharing a port with others results in blocking of other applications sharing the same port</li> <li>• [Matrix API] Potential stop of generating callbacks when no SDI signal is present and PC is heavily overloaded</li> <li>• [MatrixAPI] not providing video in the callback, while in zero-copy mode, did result in a corrupt SDI output with spurious EAV/SAV/ADF sequences</li> <li>• [Matrix API] optimized multi-threading code to lower CPU overhead caused by Matrix API threads</li> <li>• DTA-2127: LinkMargin and EbN0 statistics were not supported for DVB-S</li> <li>• DTA-2127: measured RF level &gt; 0 dBm and &lt; -88 dBm were incorrect</li> <li>• DTA-2131: reception errors were seen on specific ATSC 1.0 streams</li> <li>• DTA-2131: the computed PLP bitrate in DtAtsc3PlpInfo was not correct for enhanced PLPs</li> <li>• DTA-2132: didn't lock to DVB-S with coderate 1/2</li> <li>• DTA-2139C: DTAPI_STAT_PER was not implemented for ATSC</li> <li>• DTA-2139C: DtAdvDemod::OpenStream() was only supported for ATSC 3.0</li> <li>• DTA-2172/74B/75/78: ASI-output data was corrupted when writing too much data</li> <li>• DTA-2172/74B/75/78: GetFifoLoad did return inaccurate FIFO-load when using TXONTIME transmit mode for Transport Streams</li> <li>• DTU-245B: driver did in some cases not update</li> </ul> <p>Linux only changes:</p> <ul style="list-style-type: none"> <li>• Parent device linked to Dta/DtPcie device</li> <li>• DtapiHwFuncScan did not finish in some cases</li> </ul>