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The UPDD API allows user mode applications to interface directly with the driver and/or the pointer devices handled by UPDD. It is assumed that the reader is familiar with the various functions and parameters of TBUPDD, since that information is not duplicated here.

The UPDD API is supported on all platforms supported by UPDD (and is in fact used by UPDD's own programs, such as the UPDD Console, test program, calibration tool etc). On each platform the interface is similar to that used natively by that platform itself. For example on Windows systems a DLL based interface, on mac os/x a dylib interface and so on. In all cases the C calling convention is used. This means that the API can be utilised from any programming language that can execute native OS API calls. Examples are provided for C++ as this is the language on which UPDD is built but these should be easily adapted to other languages. If using another language you will probably already know how to make library calls, but in the case of any doubt that you should refer to documentation for your software generation tool. Whilst we can advise in general terms full support of all possible programming tools is outside the scope of normal support. For example Java developers will need to use the Java Native Interface (JNI) as per the example shown below.

Depending on which operating system and client language is used the user has a choice of linking to the API statically or dynamically. For example on Windows both static and dynamic libraries are available, however Visual Basic only supports dynamic linking.

Depending on the OS in use the following files implement the UPDD API:

Operating System	Files	Description				
	TBapi.h	function declarations				
	Tbapi.lib	lib file used for dynamic linking to TBAPI.DLL				
	Tbapi.dll	Dynamically linked library (supplied with the driver)				
	Tbapi.bas	contains DLL function declarations, constants and data types and helper functions for VB				
	Download		Version	Notes	Date	
		32bit	4.1.6	Win 2000	13 th July 2010	
		32bit	4.1.8	Win XP	24 th Mar 2011	
		32bit	4.1.10	Win XP thro' 7	10 th Jan 2011	
		32bit	5.x.x	Win xp thro ` 8. Now ships with driver in UPDD folder		
		64bit	5.x.x	Win xp thro ` 8. Now ships with driver in UPDD folder		
TBapi.dll and TBapi.h now ship with delivered software package						
	TBapi.h	function declarations				
	TBapi.dll	4.1.10	Apr 2011	Dynamically linked library – <i>support withdrawn</i>		
	TBapi.dll	5.0.2	Oct 2012	Dynamically linked library – <i>support withdrawn</i>		
	TBapi.dll/lib	5.1.xxx	Aug 2013	Now ships with driver CE modules		
	TBapi.dll and TBapi.h now ship with delivered software package					
	TBapi.h	Function declarations				
	nonwindows.h	declarations of Windows specific constructs for non Windows targets				
	libTBApi.a	statically linked implementation for a given target processor <i>When linking to libTBApi.a you must also link in /usr/local/lib/libACE.dylib</i>				
	Download		Version	Notes	Date	
		Intel	32bit	4.1.1	<i>Support withdrawn</i>	1 st May 2009
		PPC	32bit	4.1.1		1 st May 2009
		Intel	32bit	4.1.10	Mac OS 10.4 and 10.5	15 th Sept 2010
		Intel	32bit	5.0.2	Mac OS X 10.6 and above	19 th Aug 2013
	Intel	32bit	5.1.xxx	Mac OX X 10.6 and above. Now installed with driver		
	TBapi.h	function declarations				
	nonwindows.h	declarations of Windows specific constructs for non Windows targets				
	libTBApi.so	shared library for a given target processor				
	Download		Version	Notes	Date	
		X86	32bit	4.1.1		1 st May 2009
		X86	32bit	4.1.8		16 th Aug 2010
		X86	64bit	4.1.8		7 th Sept 2010
		X86	32bit	5.0.2		12 Aug 2013
	X86	64bit	5.0.2		12 th Aug 2013	
	TBapi.h	function declarations				
	nonwindows.h	declarations of Windows specific constructs for non Windows targets				
	libTBApi.so	shared library for a given target processor – <i>supplied with the driver</i>				
	Please note the libTBApi.so is supplied with the driver and not in the download file					
	X86	32bit	4.1.10	Solaris Version 10	1 st Feb 2011	



X86 32bit 5.0.2 Solaris Version 8

6th Feb 2014

Development Languages specifics

Java applications will need to use the [Java Native Interface](#) (JNI). This can link using our standard Windows DLL or shared library in other unix based OS.

Usage of our API within a Java application requires a JNI implementation, an API declaration and usage within the Java application as per this example declaring and using the TBApiInit function call:



JNI Implementation JNIEXPORT void JNICALL Java_TBApiClass_TBApiInit
 (JNIEnv * a, jobject b, jbyte c)
 TBApiInit(c);

Declaration public static TBApiClass api;

Usage api = new TBApiClass();
 api.TBApiInit((byte)1);

Contact

For further information or technical assistance please email the technical support team at technical@touch-base.com.