

**The MetaStock® Developer's Kit (MDK)** *is the single-stop resource for the MetaStock user experienced in programming that would like to develop tools to increase the power of their own analysis. It is also perfect for the software developer wanting to create powerful add-on modules for MetaStock users.*

*MetaStock is the ideal technical analysis program with which experienced developers can integrate their own customized trading solutions and is the central component of the Equis Solution Provider program. The Developer's Kit includes the MetaStock File Library API, the MetaStock External Function API, and the Custom User Interface Utility.*

#### Available Versions

##### Read-Only Version

The read-only version of MDK includes the read-only version of MSFL. This version can be purchased with no qualification process.

##### Read/Write Version

The read/write version of MDK includes the write version of MSFL. This version is available only to developers who meet Equis' standards through a licensing process.

There are two licenses available for the read/write version. The first license is for private or internal use, the other other license is for commercial use.

If you are interested in the read/write version, go to our website at [www.equis.com/devkitapp](http://www.equis.com/devkitapp). Complete and submit the application for the read/write MSFL. Upon approval, you will be sent a license agreement to sign and an order form.

Call for current pricing for either version of the MetaStock Developer's Kit.

**Order your copy of the  
MetaStock Developer's Kit  
by calling toll free:**

**1-800-882-3040**

**International: 801-265-8886 Fax: 801-265-3999**

**Online orders: [www.equis.com](http://www.equis.com)**

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# METASTOCK DEVELOPER'S KIT



THE TOOLS METASTOCK  
USERS AND THIRD-PARTY  
DEVELOPERS NEED TO  
INTEGRATE THEIR CUSTOM  
SOLUTIONS WITH METASTOCK®

# The MetaStock Developer's Kit:

## The tools you need to integrate your custom solution with MetaStock.

### The MetaStock File Library (MSFL) API

- \* Natively read/write MetaStock price data
- \* Supports C, C++, Pascal, and Visual Basic
- \* 2000 securities per folder
- \* 65,500 price data records per security
- \* Implemented as a 32-bit Windows DLL
- \* Thread Safe
- \* Multi-user support
- \* Royalty-free distribution
- \* Y2K ready
- \* For experienced programmers

The MSFL API contains easy-to-use functions. With the read-only MSFL, the API includes functions for reading MetaStock price data. With the read/write MSFL, the API includes functions for reading, writing, editing, adjusting, sorting, inserting, deleting, and merging MetaStock price data. The MSFL comes as a Win 32 DLL and includes definition/header files and sample applications for Microsoft Visual C++ 6.0, Borland C++ Builder 4, Delphi 4, and Visual Basic 6.0. Equis uses the same MSFL for the data access in MetaStock and The DownLoader™, so you can be sure it will be reliable and compatible with MetaStock and other Equis products.

### MSFL API Calls

MSFL Read-only			
MSFL1_CloseDirectory	MSFL1_Initialize	MSFL1_GetDataRecordCount	MSFL1_SeekEndData
MSFL1_FindDataDate	MSFL1_LockSecurity	MSFL1_GetDirectoryName	MSFL1_Shutdown
MSFL1_FindDataRec	MSFL1_OpenDirectory	MSFL1_GetDirNumberFromHandle	MSFL1_UnlockSecurity
MSFL1_GetCurrentDataPos	MSFL1_ReadDataRec	MSFL1_GetDirectoryStatus	MSFL1_UpdateSecurity
MSFL1_GetDataPath	MSFL1_SeekBeginData	MSFL1_GetErrorMessage	MSFL1_WriteDataRec
MSFL1_GetDataRecordCount	MSFL1_SeekEndData	MSFL1_GetFirstSecurityInfo	MSFL2_AdjustData
MSFL1_GetDirectoryNumber	MSFL1_Shutdown	MSFL1_GetLastFailedLockInfo	MSFL2_ChangeFieldsInData
MSFL1_GetDirNumberFromHandle	MSFL1_UnlockSecurity	MSFL1_GetLastFailedOpenDirInfo	MSFL2_CopySecurity
MSFL1_GetDirectoryStatus	MSFL2_GetSecurityHandles	MSFL1_GetLastSecurityInfo	MSFL2_DeleteMultipleRecs
MSFL1_GetErrorMessage	MSFL2_ReadBackMultipleRecs	MSFL1_GetMSFLState	MSFL2_DeleteMultipleRecsByDates
MSFL1_GetFirstSecurityInfo	MSFL2_ReadDataRec	MSFL1_GetNextSecurityInfo	MSFL2_GetSecurityHandles
MSFL1_GetLastFailedLockInfo	MSFL2_ReadMultipleRecs	MSFL1_GetPrevSecurityInfo	MSFL2_InsertMultipleRecs
MSFL1_GetLastFailedOpenDirInfo	MSFL2_ReadMultipleRecsByDates	MSFL1_GetRecordCountForDateRange	MSFL2_MergeData
MSFL1_GetLastSecurityInfo	<b>MSFL Read/Write</b>	MSFL1_GetSecurityCount	MSFL2_ReadBackMultipleRecs
MSFL1_GetMSFLState	MSFL1_AddSecurity	MSFL1_GetSecurityHandle	MSFL2_ReadDataRec
MSFL1_GetNextSecurityInfo	MSFL1_BuildMetaStockDirectory	MSFL1_GetSecurityID	MSFL2_ReadMultipleRecs
MSFL1_GetPrevSecurityInfo	MSFL1_CloseDirectory	MSFL1_GetSecurityInfo	MSFL2_ReadMultipleRecsByDates
MSFL1_GetRecordCountForDateRange	MSFL1_DeleteDataRec	MSFL1_GetSecurityLockedStatus	MSFL2_RemoveDuplicateDataRecs
MSFL1_GetSecurityCount	MSFL1_DeleteSecurity	MSFL1_Initialize	MSFL2_SortData
MSFL1_GetSecurityHandle	MSFL1_FindDataDate	MSFL1_InsertDataRec	MSFL2_SortSecurities
MSFL1_GetSecurityID	MSFL1_FindDataRec	MSFL1_LockSecurity	MSFL2_WriteDataRec
MSFL1_GetSecurityInfo	MSFL1_GetCurrentDataPos	MSFL1_OpenDirectory	MSFL2_WriteMultipleRec
MSFL1_GetSecurityLockedStatus	MSFL1_GetDataPath	MSFL1_ReadDataRec	
		MSFL1_SeekBeginData	

### The MetaStock External Functions (MSX) API

- \* Create MetaStock Custom Formula functions in a Win 32 DLL
- \* Use the power of conventional programming languages
- \* Sample code provided for C, C++, Pascal, and PowerBASIC
- \* Seamless integration with MetaStock 7.0 or higher
- \* DLL functions available to Custom Indicators, System Tests, Explorations, and Experts
- \* Unlimited number of functions per DLL
- \* Argument types include Data Array, Numeric, String, and Custom
- \* Up to 9 arguments per function
- \* Access to all price data for the current security
- \* MSXTest application provided for verifying and stress-testing your DLL
- \* Intended for use by experienced programmers

If you have programming ability in a supported programming language, then you can expand the functionality of the MetaStock Formula Language. Create your own custom functions using any programming language that can produce a standard Win32 DLL. The MSX API defines an interface that allows MetaStock to query your DLL for the list of provided functions and required arguments. Each of your functions appears automatically in MetaStock's "Paste Function" dialog. MSX functions are called via the new "ExtFml" command in the MetaStock 7.0 Formula Language.

Use MSX functions to perform complex calculations for custom indicators, pattern matching, fundamental data acquisition, etc. Distribute your MSX DLLs with accompanying Custom Indicators, Experts, or other MetaStock tools using the enhanced Formula Organizer self-installing executable feature.

### MetaStock Custom User Interface Utility

- \* Add or delete buttons on the MetaStock custom toolbar
- \* Add or delete items on the MetaStock tools and help menus
- \* Link to applications, MetaStock templates or layouts, documents, URLs, and more

- \* Menu items can vary depending on whether or not a chart is opened
- \* Chart menus have access to the security's name, symbol, and periodicity
- \* Implemented as a command line based executable that can be called from batch files or other applications

Seamlessly integrate your custom solution with MetaStock by modifying the MetaStock custom toolbar and the MetaStock tools and help menus with links to your applications or URLs. This allows the end user to have single click access to your expertise. If you can launch it from the Windows run dialog (Start menu | run), you can add it to the MetaStock custom toolbar or the MetaStock tools and help menus. Designed to be called from any third party setup program so that you can easily integrate your solution with MetaStock.



### Formula Organizer Enhancements

Export your MSX DLLs, templates, custom indicators, explorations, system tests, and experts into a self-extracting installation program. This makes it easy for developers to create and distribute add-on products for MetaStock. And to make sure that your custom formula stays yours when you distribute it via the web or email, the export process includes options for password protection and copyright display.

### DDE Server Documentation

This includes extensive instructions for using the Dynamic Data Exchange Server included with MetaStock Professional with other DDE compatible software, such as Microsoft Excel or your own custom DDE clients. The DDE Server provides easy access to your real-time price data.