ODAPI Configuration Utility

The Object Database Application Programming Interface (ODAPI) is the database engine that accesses and delivers your data. To do this properly, ODAPI needs information about your specific environment. This information is stored in the ODAPI configuration file. Use the ODAPI Configuration Utility to change the settings in this configuration file.

Options   Click the Options button to open the <u>Basic Options dialog box</u> where you can change your network control file or your language drivers. You can also change your minimum and maximum buffer size and turn Local Share on or off.

Alias   Click the Alias button to open the <u>Alias Manager dialog box</u> where you can add, delete, or modify any of your database aliases.

You can also use <u>System</u> and <u>Drivers</u> menus to change settings used to access your data.

Note: You must restart **all** open client ODAPI applications for changes made with the ODAPI Configuration Utility to take effect.

File | Open

Choose File | Open to open the <u>Open dialog box</u> where you can select a .CFG file to view or edit. A list of .CFG files contained in the current directory appears below the File Name text box.

Open dialog box

Use the Open dialog box to select a .CFG file to view or edit.

File Name
Type the name of the .CFG file in the File Name text box and choose OK. When a .CFG file is open, its name appears in the title bar.

All of the .CFG files in the current directory are listed in the box below the File Name text box.

List Files of Type
Displays the type of files listed in the File Name text box.

Directories
Displays the current directory. Use the directory list to search for .CFG files in other directories.

Drives
Lists the current drive. To change to another drive, click the arrow button and select a driver from the list box.

File Stats
Displays the date and time that the current .CFG file was last modified.

To open the Open dialog box, choose File | Open from the main menu.

File | Save

Choose File | Save to save any changes you made with the ODAPI Configuration Utility. The changes take effect when you restart **all** open ODAPI client applications.

File | Save As

Choose File | Save As to open the <u>Save As dialog box</u> where you can save the current settings in another .CFG file.

Save As dialog box

Use the Save As dialog box to save the current .CFG settings in another file.

File Name
Type the name of the new .CFG file in the File Name text box and choose OK.

All of the .CFG files in the current directory are listed in the box below the File Name text box.

List Files of Type
The List Files box displays the type of files listed in the File Name text box.

Directories
The Directories box lists the current directory. Use the browse box below the Directories box to search for .CFG files in other directories.

Drives
The Drives text box lists the current drive. To change to another drive, click the arrow button and select a driver from the list box.

File Stats
The File Stats box displays the date and time that the current .CFG file was last modified.

To open the Save As dialog box, choose File | Save As from the main menu.

File | Merge

Use File | Merge to open the <u>Merge Another File With Current dialog box</u> where you can merge two configuration files.

Merge Another File With current dialog box

Use the Merge dialog box to merge two .CFG files. The first file will be the configuration file that is currently open. Enter the name of the second file in the text box provided.

Choose Browse to open the Browse dialog box where you can locate the .CFG file you want to merge with the current .CFG file.

See also
Browse dialog box

Browse dialog box

Use the Browse dialog box to locate the .CFG file you want to merge with the current .CFG file.

File Name

When you have located the .CFG file you want to merge, enter its name in the File Name text box and choose OK.

All of the .CFG files in the current directory are listed in the list box below the File Name text box.

List Files of Type

The List Files box displays the type of files listed in the File Name box.

Directories

The Directories panel lists the current directory. Use the Directories selection list at the bottom of the panel to search for .CFG files in other directories.

Drives

The Drives text box lists the current drive. To change to another drive, click the arrow button and select a drive from the list box.

File Stats

The File Stats box displays the date and time that the currently selected .CFG file was last modified.

$ File | Make Current# idh_odapi_filemakecurrent

File | Exit

Choose File | Exit to exit the ODAPI Configuration Utility. If you made changes and did not save them, a warning appears. You can save your changes or exit without saving.

Close ODAPI Config file dialog box

Changes you made to the current .CFG file have not been saved. If you want to save the changes, choose Yes. If you do not want to save the changes choose No. To continue working in the ODAPI Configuration Utility, choose Cancel.

System menu

Use the System menu to define the settings ODAPI uses to start your application and to internally convert character strings to date, time, and number values.

Choose	To
Init	modify the settings ODAPI uses to start your application and allocate your Windows resources, such as memory and network use.
Formats	modify the settings ODAPI uses to convert string values into date, time, or number values and to convert these values to character strings. These settings are used when you change a field's type (during Restructure), run queries using selection criteria or pattern matching, and add (or subtract) tables.

System | Init

Choose System | Init to open the <u>SYSTEM.INIT dialog box</u> where you can modify the settings used to access your data and allocate your Windows resources, such as memory and network use.

SYSTEM.Init dialog box

Use the System.Init dialog box to modify the settings used to access your data and allocate your Windows resources, such as memory and network use.

Value
The current value for each setting is displayed in the Value text box. To modify the current value, enter the new value in the Value text box.

Description
A brief description of each setting is provided in the Description text box.

Settings

VERSION	describes the version of ODAPI you're using. This is an internal setting and should not be changed.
LOCAL SHARE	tells ODAPI to perform network-style file locking on a local drive. It is set to TRUE if Local Share is on and FALSE otherwise. The default is FALSE.
MINBUFSIZE	is the minimum amount of memory (in KB) reserved for database data cache. The value can be any integer greater than 32 and less than the total amount of RAM available to Windows. The default is 256. Non-integer values are ignored.
MAXBUFSIZE	is the maximum amount of memory (in KB) allocated for database data cache. The value can be any integer greater than the MINBUFSIZE and less than (or equal to) the total amount of RAM available to Windows. The default is 2048. Non-integer values are ignored.
LANGDRIVER	is the system language driver. Choose a valid language driver. The default is the OEM driver appropriate for your country's version of Windows, for example, ASCII for U.S. workstations.
NET DIR	is the directory containing your network control file (PDOXUSRS.NET). The default is blank. To change this setting, enter an existing directory path.
MAXFILEHANDLES	is the maximum number of file handles ODAPI uses. The value can be any integer ranging from 5 to 256. Higher values improve performance but use more Windows resources. The default is 48.
SYSFLAGS	is a reserved setting used by ODAPI and should not be changed.
SQLQRYMODE	tells ODAPI where to perform queries. This setting can be SERVER or left blank. SERVER tells ODAPI to perform SQL queries on the server. If this setting is left blank then ODAPI will attempt to perform queries on a remote server. If this fails, the query will be attempted locally. This is the default behavior. **Note:** If SQLQRYMODE is set to SERVER, and the attempt to complete the query on the server is unsuccessful, the query will fail.

System | Formats

Choose System | Formats to display a menu to change the settings used to convert string values into date, time, or number values and to convert these values to character strings.

Note: We do not recommend changing FORMAT settings unless you need to work with specialized data formats or customize the International settings of Windows Control Panel to values not normally used by your country. If you customize Windows Control Panel, we strongly recommend you make similar changes to your ODAPI FORMAT settings; otherwise queries using selection criteria and pattern matching may return unexpected results.

DATE   opens the <u>System.Formats.Date dialog box</u> where you can change the settings used to format date values.

TIME   opens the <u>System.Formats.Time dialog box</u> where you can change the settings used to format time values.

NUMBER   opens the <u>System.Formats.Number dialog box</u> where you can change the settings used to format number values.

System | Formats | Date

Choose System | Formats | Date to open the <u>System.Formats.Date dialog box</u> where you can change the settings used to format date values.

System.Formats.Date dialog box

Use the System.Formats.Date dialog box to modify the settings used to convert string values into date values. The current value for each setting is displayed in the Value text box. To change the setting, enter the new setting in this same box.

SEPARATOR is the character used to separate the month, day, and year components of a date value. For example, the value "12/31/92" uses the forward-slash (/) as a separator. The default is the character normally used in the country selected in the Windows Control Panel when you install Paradox.

MODE controls the order of the month, day, and year components and can be 0 (for MDY), 1 (for DMY), or 2 (for YMD). Other values are ignored. The default is the order normally used in the country selected in the Windows Control Panel when you install Paradox.

FOURDIGITYEAR specifies the number of digits for the year value (four or two). If TRUE, years are expressed in four digits (For example, 1993). If FALSE, the default, years have two digits (93).

YEARBIASED tells Paradox whether or not it should add 1900 to years entered as two digits. For example, if TRUE and you enter "7/21/69," Paradox interprets your value as "7/21/1969", otherwise, the date is interpreted as entered (in this case, "7/21/0069"). The default is TRUE.

LEADINGZEROM specifies whether or not single digit month values have a leading zero. For example, if you enter "1/1/80" and this is set to TRUE , Paradox interprets the date as "01/1/80." If FALSE, the value is "1/1/80." The default is TRUE.

LEADINGZEROD controls whether or not single digit day values have a leading zero. For example, if you enter "1/1/80" and this is set to TRUE, Paradox interprets the value as "1/01/80." If FALSE, your date is "1/1/80." The default is TRUE.

To open the SYSTEM | FORMATS | DATE dialog box, choose System | Formats | Date from the main menu.

System | Formats | Time

Choose System | Formats | Time to open the <u>System.Formats.Time dialog box</u> where you can change the settings used to format time values.

System.Formats.Time dialog box

Use the System.Formats.Time dialog box to modify the settings used to convert string values into time values. The current value for each setting is displayed in the Value text box. To change the setting, enter the new setting in this same box.

TWELVEHOUR   tells Paradox whether or not time values are expressed using a twelve-hour clock. For example, if TRUE and it is currently 8:21 p.m., the time is "08:21 PM." If FALSE, the time is "20:21." The default is TRUE.

AMSTRING   is the string of characters used to indicate morning (before noon and after midnight) times, when TWELVEHOUR is TRUE. The setting can be any valid string of characters. The default is "AM". If TWELVEHOUR is FALSE, this item is ignored.

PMSTRING   is the string of characters used to indicate evening (after noon and before midnight) times, when TWELVEHOUR is TRUE. The setting can be any valid string of characters. The default is "PM". If TWELVEHOUR is FALSE, this item is ignored.

SECONDS   specifies whether or not time values include seconds. For example, if this setting is TRUE and it is currently 8:21:35 p.m., the time value is "8:21:35 PM." If FALSE, the time is "8:21 PM". The default is TRUE.

MILSECONDS   specifies whether or not time values include milliseconds. If this setting is TRUE, time values include milliseconds (for example, "8:21:35:54 PM".) If FALSE, time values do not include milliseconds. The default is FALSE.

To open the SYSTEM.FORMATS.TIME dialog box, choose System | Formats | Time from the main menu.

System | Formats | Number

Choose System | Formats | Number to open the <u>System.Formats.Number dialog box</u> where you can change the settings used to format number values.

System.Formats.Number dialog box

Use the System.Formats.Number dialog box to modify the settings used to convert string values to number values. The current value for each setting is displayed in the Value text box. To change the setting, enter a new setting in this same box.

DECIMALSEPARATOR is the character used to separate the decimal portion of a number from its integer portion. For example, in 3.14, a period (.) separates the decimal portion (14) from the integer (3). This can be any valid character and defaults to the standard decimal separator used in the country selected in the Windows Control Panel when you install Paradox.

THOUSANDSEPARATOR is the character used to separate large numbers into their "thousands" components. For example, in 1,000,000.00, commas (,) separate the millions and thousands components. This can be any valid character and defaults to the standard thousands separator used in the country where you bought Paradox.

DECIMALDIGITS determines how many digits to the right of the decimal point will be held when converting string values to number values.

LEADINGZERON indicates whether numbers between 1 and -1 have a leading zero to the left of the decimal. For example, if your value is .14 and this setting is TRUE, your value is 0.14. If FALSE, there is no leading zero (.14). The default is TRUE.

To open the SYSTEM.FORMATS.NUMBER dialog box, choose System | Formats | Number from the main menu.

Drivers menu

Use the Drivers menu to modify the settings that ODAPI uses to determine how your application creates, sorts, and handles your tables.

Choose the type of table whose setting you want to modify.

Drivers | Paradox

Choose Drivers | Paradox to modify the way your Paradox tables are created, sorted and handled.

Init   Opens the <u>Drivers.Paradox.Init dialog box</u> where you can modify the initialization parameters used for Paradox tables (.DB).

Note: Because the INIT section contains internal settings, we do not recommend changing the values of its items.

Table Create   Opens the <u>Drivers.Paradox.Table Create dialog box</u> where you modify the settings that control Paradox tables.

Drivers | Paradox | Init

Choose Drivers | Paradox | Init to open the <u>Drivers.Paradox.Init dialog box</u> where you can modify the initialization parameters used for Paradox tables (.DB).

Drivers.Paradox.Init dialog box

Use the Paradox Drivers Init dialog box to modify the initialization parameters used for Paradox tables (.DB).

Value
The current value for each setting is displayed in the Value text box. To modify the current value, enter a new value in the Value text box.

Description
A brief description of each setting is provided in the Description text box.

Settings

VERSION	is the Borland-internal version number of your ODAPI Paradox driver. This is for internal use only; do not modify it.
TYPE	describes the type of Paradox driver being used by ODAPI. Currently, this can only be FILE. This is an internal setting; do not modify it.
LANGDRIVER	is the default language driver for Paradox tables. Choose the internal name of any Paradox language driver listed in the ODAPI language drivers; however, we recommend setting this item from the ODAPI Configuration Utility dialog box.

When changing language drivers you must enter the new driver's internal name. The <u>Supported Paradox Language Drivers</u> table shows both names for all language drivers that are currently supported.

Drivers | Paradox | Table Create

Choose Drivers | Paradox | Table Create to open the Drivers.Paradox.Table Create dialog box where you can control the settings of Paradox tables.

Drivers.Paradox.Table Create dialog box

Use the Drivers.Paradox.Table Create dialog box to control the settings of Paradox tables.

Value
The current value for each setting is displayed in the Value text box. To modify the current value, enter a new value in the Value text box.

Description
A brief description of each setting is provided in the Description text box.

Settings

LEVEL	is the table format used to create temporary Paradox tables and can be 4 for the Standard table format introduced in Paradox 4.0 or 3 for the Compatible table format used by Paradox 3.5 and earlier versions. The default is 4.
	Note: To use BLOB fields, secondary indexes, and referential integrity, you must create a level-4 table.
BLOCK SIZE	is the size of disk blocks used to store records. When you create a table, Paradox allocates disk space in blocks. This can be 1024, 2048, 3072, or 4096. The default is 2048.
FILL FACTOR	is a percentage value that determines when Paradox allocates another disk block for index files. When an index has filled this amount of the current disk block, Paradox allocates another disk block for the file. Smaller values offer better performance but increase the size of your indexes. Larger values give smaller index files but increase the time needed to create an index. The value can be any integer ranging from 1 to 100. The default is 95.
STRICTINTEGRTY	determines whether or not applications that do not support referential integrity (for example, Paradox 4.0) can modify tables using that feature. For example, if TRUE and you attempt to change a table with referential integrity in Paradox 4.0, you receive an error message. If FALSE, you can change the table, but you risk the integrity of your data. The default is TRUE.

Drivers | dBASE

Choose Drivers | dBASE to modify the settings used for dBASE tables.

Init	Opens the <u>Drivers.dBASE.Init dialog box</u> where you can modify the initialization parameters used for dBASE tables.
	Note: Because the INIT section contains internal settings, we do not recommend changing the values of its items.
Table Create	Opens the <u>Drivers.dBASE.Table Create dialog box</u> where you can control the settings for new dBASE tables.

Drivers | dBASE | Init

Choose Drivers | dBASE | Init to open the <u>Drivers.dBASE.Init dialog box</u> where you can modify the initialization parameters used for dBASE tables (.DBF).

Drivers.dBASE.Init dialog box

Use the Drivers.dBASE.Init dialog box to modify the initialization parameters used for dBASE tables (.DBF).

Note: Because the INIT section contains internal settings, we do not recommend changing the values of its items.

Value

The current value for each setting is displayed in the Value text box. To modify the current value, enter the new value in the Value text box.

Description

A brief description of each setting is provided in the Description text box.

Settings

VERSION   is the Borland-internal version number of your ODAPI dBASE driver. This is for internal use only; do not modify it.

TYPE   describes the type of dBASE driver being used by ODAPI. Currently, this can only be FILE. This is an internal setting; do not modify it.

LANGDRIVER   is the current language driver for dBASE tables. You can choose the internal name of any dBASE language driver; however, we recommend setting this item from the ODAPI Configuration Utility dialog box.

When changing language drivers you must enter the new driver's internal name. The Supported dBASE Language Drivers table shows both names for all language drivers that are currently supported.

Drivers | dBASE | Table Create

Choose Drivers | dBASE | Table Create to open the Drivers.dBASE.Table Create dialog box where you can control the settings for new dBASE tables.

Drivers.dBASE.Table Create dialog box

Use the Drivers.dBASE.Table Create dialog box to control the settings for new dBASE tables.

Value

The current value for each setting is displayed in the Value text box. To modify the current value, enter the new value in the Value text box.

Description

A brief description of each setting is provided in the Description text box.

Settings

LEVEL	is the table format used to create dBASE temporary tables and can be 4 for the dBASE IV table format or 3 for the table format used in dBASE III and dBASE III Plus. The default is 4.
MDX BLOCK SIZE	is the size of disk blocks (in bytes) Paradox allocates for .MDX files. The value can be any integer that is a multiple of 512. The default is 1024.
MEMO FILE BLOCK	is the size of disk blocks (in bytes) Paradox allocates for memo (.DBT) files. The value can be any integer that is a multiple of 512. The default is 1024.

Remote database servers

The Driver you have selected is for a remote database server. Refer to your Borland SQL Link documentation for details on these drivers and other settings.

Basic Options dialog box

The Basic Options dialog box lets you change some of the settings of your .CFG file.

Network Control File Directory

Enter the complete path of the PDOXUSRS.NET file. This path should be set to a subdirectory on your network that is accessible to every user who will share Paradox tables. Each user must set this path individually.

Any additional applications used to access Paradox tables on a network must also use the same network file specified here.

System Language Driver

Select the driver to use as a default if the Paradox and dBASE language drivers are undefined.

Paradox Language Driver

Select the driver that will determine for Paradox tables the sort order, capitalization, and string comparison conventions that are specific to your country's language. The default for users in the United States is the Paradox ASCII driver.

dBASE Language Driver

Select the driver that will determine for dBASE tables the sort order, capitalization, and string comparison conventions that are specific to your country's language. The default for users in the United States is the EnUS dBASE 437 driver.

Note: If you open a dBASE IV 2.0 table that uses a different language driver than the one selected for the dBASE Language Driver Basic Option, ODAPI uses the table's language driver for character conversion, case conversion, and sorting (collation) operations. ODAPI does not contain individual settings to control ASCIISORT or LANGDRIVER.

Buffer Size (in Kilobytes)

Specify a range for the size of the database cache.

Minimum	Specify the minimum amount of memory you want available. The minimum valid value for this is 32. The default is 256.
Maximum	Specify the maximum amount of memory you want available. The maximum valid value for this is 65535. The default is 2048.

Local Share

Local Share is On	lets you safely share tables with non-ODAPI applications that you are running locally. If you select this option, make sure that SHARE.EXE is loaded before starting your application, or your application won't start.
Local Share is Off	turns off the data locks set by Local share. If you are sharing data with non-ODAPI applications, this leaves you unprotected from data corruption. This option provides a performance increase in accessing local data. The default is Local Share is off.

Alias Manager dialog box

Use the Alias Manager dialog box to add, delete, or modify a database alias.

Existing Aliases
The Existing Aliases box lists all of the available aliases.

Modify
Choose the Modify to open the <u>databases dialog box</u> where you can modify the currently selected alias.

Add
Choose Add to open the <u>Add New Alias dialog box</u> where you can add new aliases.

Delete
Choose Delete to remove the currently selected alias.

To open the Alias Manager dialog box, Click the Alias button from the ODAPI Configuration Utility desktop.

DATABASES.aliasname dialog box

Use the databases.aliasname dialog box to edit the parameters listed in the Parameter Categories box.

Select the Parameter Category that you want to edit and click the Edit button. For example, selecting DB INFO and clicking the edit button opens the <u>DATABASES.aliasname.DBINFO dialog box</u> where you can edit the settings of the currently selected alias. You can also click the Edit button to view the current settings for an alias.

databases.aliasname.db info dialog box

Use the DATABASES.aliasname.DB INFO dialog box to modify the settings for the currently selected alias.

TYPE   is the type of alias that has been defined. The TYPE should not be modified by the user.

PATH   indicates the directory path the alias represents.

When you select a setting to modify, the current value for that setting appears in the Value text box and a brief description of the setting appears in the Description text box.

Add New Alias dialog box

Use the Add New Alias dialog box to create a new alias for your database.

New Alias Name
Type the alias name in the New Alias name text box.

Alias Type
The Alias type text box displays the type of table your new alias will be assigned to. The default type is Standard. To change the type, click the arrow on the Type text box and choose from the types listed.

Delete Alias dialog box

Use the Delete Alias dialog box to verify that you want to remove an alias and that the correct alias is being deleted.

If you do not want to delete the currently selected alias, click Cancel.

If you do want to delete the currently selected alias, click OK.

Supported Paradox Language Drivers

The following table shows the language drivers you can use for Paradox tables, along with the code page for each driver. Advanced users can enter the internal name in the Drivers.Paradox.Init dialog box.

Note: Internal language drivers names are case sensitive.

Driver name	Internal	Code Page
Paradox 'ascii'	ascii	437
Paradox 'ESP 437'	SPANISH	437
Paradox 'intl'	intl	437
Paradox 'intl850'	intl850	850
Paradox 'ISL 861'	iceland	861
Paradox 'nordan'	nordan	865
Paradox 'nordan40'	nordan40	865
Paradox 'swedfin'	swedfin	437

Supported dBASE Language Drivers

The following table shows the language drivers you can use for dBASE tables. The number in the driver name indicates the code page for that driver. Advanced users can enter the internal name in the Drivers.dBASE.Init dialog box. The language or country supported by each language driver is also shown.

Note: Internal language drivers names are case sensitive.

Driver name	Internal	Language
dBASE DAN cp865	DB865DA0	Danish
dBASE DEU cp437	DB437DE0	German
dBASE DEU cp850	DB850DEO	German
dBASE ENG cp437	DB437UK0	English (U.K)
dBASE ENG cp850	DB850UK0	English (U.K)
dBASE ENU cp437	DB437US0	English (U.S.)
dBASE ENU cp850	DB850US0	English (U.S.)
dBASE ESP cp437	DB437ES1	Spanish
dBASE ESP cp850	DB850ES0	Spanish
dBASE FIN cp437	DB437FI0	Finnish
dBASE FRA cp437	DB437FR0	French
dBASE FRA cp850	DB850FR0	French
dBASE FRC cp850	DB850CF0	French (Canadian)
dBASE FRC cp863	DB863CF1	French (Canadian)
dBASE ITA cp437	DB437IT0	Italian
dBASE ITA cp850	DB850IT0	Italian
dBASE NLD cp437	DB437NL0	Dutch
dBASE NLD cp850	DB850NL0	Dutch
dBASE NOR cp437	DB437NO0	Norwegian
dBASE PTB cp850	DB850PT0	Portuguese (Brazilian)
dBASE PTG cp860	DB860PT0	Portuguese
dBASE SVE cp437	DB437SV0	Swedish
dBASE SVE cp850	DB850SV0	Swedish

ODAPI Configuration Utility Error

The ODAPI Configuration Utility Error indicates that you have provided invalid information. Read the Error dialog box to determine where the invalid information was encountered.

For details on providing valid information, click the Search button in this Help system and enter the topic you are looking for in the text box provided.