Monarch Command Line User Guide

Version 14

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[1] Overview

Monarch supports a number of command line parameters that you can use to open files when you start a Monarch session or automate an entire session and produce an export file.

The syntax for a simple Monarch command line is:

```
Monarch.exe /rpt:[Report File] /mod:[Model File] /exp:[Export File]
/[View]
```

To open password-protected PDF files, the following syntax is used:

```
Monarch.exe /rpt:[Report File@password] /mod:[Model File] /exp:[Export
File] /[View]
```

NOTE

The executable name is not the same as the interactive Monarch application. It is named **Monarch.exe** to help with compatibility of existing scripts for users upgrading from previous versions. Also, starting from Monarch v12, the command line module does not have a user interface, to increase performance.

For example, to open a report and Model and then export from Table View:

```
Monarch.exe /rpt:"C:\Users\Public\Documents\Datawatch
Monarch\Reports\classic.prn" /mod:"C:\Users\Public\Documents\Datawatch
Monarch\Models\lesson9.dmod" /exp:"C:\Users\Public\Documents\Datawatch
Monarch\Export\classic.xls" /T
```

To open multiple reports, set a runtime field called "Test" to "True," and export from Summary View:

```
Monarch.exe /rpt:"C:\Users\Public\Documents\Datawatch
Monarch\Reports\classic.prn" /rpt:"C:\Users\Public\Documents\Datawatch
Monarch\Reports\classfeb.prn" /mod:"C:\Users\Public\Documents\Datawatch
Monarch\Models\runtime.dmod" /set:"Test"="True"
/exp:"C:\Users\Public\Documents\Datawatch Monarch\Export\classic.xls"
/S
```

Command Line Parameters

The tables below present a list and explanations of the command line options.

INPUT OPTIONS

Parameter	Description
/prj:[Project File]	Specifies the Project file to use in the Monarch session. When the /prj and /rpt switches are used in tandem, the reports specified in the command line override any report indicated in the Project, i.e., if the Project already contains a report list, it is discarded.
/mod:[Model File]	Specifies the Model file to use in the Monarch session. **Note:** Omit this parameter if you specified a Project file as the first parameter.
/set:[Field Name]= [Field Value]	Sets a runtime parameter named [Field Name] to the value [Field Value] from the command line, instead of typing the values into a dialog box. If all runtime parameters are fulfilled from the command line, the corresponding dialog is suppressed upon program startup.

INPUT REPORT OPTIONS

Parameter	Description
/rpt:[Report File]	Specifies the report file to use in the Monarch session. You can specify /rpt: more than once to open multiple reports. If you specified a Project file and that Project has existing reports, the reports specified in the command line override any report indicated in the Project, i.e., if the Project already contains a report list, it is discarded.

INPUT DATABASE OPTIONS

Parameter	Description
/datasource:[name]= connection_string	Specifies the connection string for a named data source, where name is either maindb (for the main database) or the name of an external lookup. For example, /datasource:Lookup2=”c:\test\MyData.mdb" sets "c:\test\MyData.mdb" as the source for the external lookup named "Lookup2" and overrides whatever source was specified in the model. If the maindb is to be opened, the syntax “/datasource:maindb=[name]=connection_string” must be explicitly used.
/table:[name=] tablename	Specifies the table to open for the named data source, where name is either maindb (for the main database) or the name of an external lookup. If the "name=" part is omitted, maindb is implied. For example, "/table:Lookup2=Employees" sets "Employees" as the table for the external lookup named "Lookup2" and overrides whatever table was specified in the model.
/pwd:[name=]password	Specifies the password to use for the named data source, where name is either maindb (for the main database) or the name of an external lookup. If the "name=" part is omitted, maindb is implied. For example, "/pwd:fred" sets "fred" as the password to be used for the main import table.

VIEW OPTIONS

Parameter	Description
/R	Sets the current view to Report View
/T	Sets the current view to Table View
/S	Sets the current view to Summary View

EXPORT OPTIONS

Parameter	Description
/exp:[Export Path and File]	Specifies the name of an export file to create. Include this parameter if you want to automate a Monarch session. The export file extension determines the file type produced. Valid extensions are: DBF, MDB, ACCDB, TXT, PDF, XLS, XLSX, HTM, HTML, XML or any other extension to create a delimited text file.
/expfileopt:[option]	Sets the file option for the command line export. Possible values of option are: • Overwrite: create table, overwrite if the table already exists • Add: add (or append) data to an existing table. Create the table first if it does not exist. • Skip: create the table only if it does not exist.
/exptable:[Tablename]	Sets the name of the table to be used for the command line export
/exptableopt:[option]	Sets the table option for the command line export. Possible values of option are overwrite, append, and skip.
/px:[jobname]	Runs a Project export jobname if it exists. Multiple jobs may be run using multiple /px switches
/pxall	Specifies that all exports defined within the Project should be executed.

These switches may appear in any order and may appear multiple times (with different name portions).

NOTE

The executable name is not the same as the interactive Monarch application. It is named **Monarch.exe** to help with compatibility of existing scripts for users upgrading from previous versions. Also, starting from Monarch v12, the command line module does not have a user interface, to increase performance.

While these switches are primarily used to override values from a Project or Model file, they can be used to specify a main import table even in the absence of an associated database Project.

For example:

```
Monarch.exe /datasource:"c:\Data\June.mdb" /table:Sales /pwd:xyz
/mod:"c:\Models\Sales.dmod" /exp:"c:\Exports\JuneSales.xls" /S
```

This command launches Monarch using data from table "Sales" in the Access database "c:\Data\June.mdb" (which requires password "xyz").

The data is loaded and interpreted via Model "c:\Models\Sales.dmod.". The current summary (notice the "/S" switch) is then exported to "c:\Exports\JuneSales.xls."

COMMAND LINE EXAMPLES

The following commands assume that you installed Monarch to the following folder:

```
c:\Program Files\Datawatch Monarch 13\Monarch\
```

The following command launches Monarch and appends data to an existing file named classic.txt from Summary View:

```
"c:\Program Files\Datawatch Monarch 13\Monarch.exe"
/rpt:"C:\Users\Public\Documents\Datawatch Monarch\Reports\classic.prn"
/mod:"C:\Users\Public\Documents\Datawatch Monarch\Models\lesson11.dmod"
/expfileopt:add /exp:"C:\Users\Public\Documents\Datawatch
Monarch\Export\classic.txt" /S
```

The following command launches Monarch and exports classic.xls from Table View, overwriting an existing file:

```
"c:\Program Files\Datawatch Monarch 13\Monarch.exe"
/rpt:"C:\Users\Public\Documents\Datawatch Monarch\Reports\classic.prn"
/mod:"C:\Users\Public\Documents\Datawatch Monarch\Models\lesson11.dmod"
/expfileopt:overwrite /exp:"C:\Users\Public\Documents\Datawatch
Monarch\Export\classic.xls" /T
```

The following command launches Monarch and appends data from Table View to an existing named range or sheet called “Test” within an existing file called classic.xls.

```
"c:\Program Files\Datawatch Monarch 13\Monarch.exe"
/rpt:"C:\Users\Public\Documents\Datawatch Monarch\Reports\classic.prn"
/mod:"C:\Users\Public\Documents\Datawatch Monarch\Models\lesson11.dmod"
/expfileopt:add /exptableopt:append /exptable: "Test"
/exp:"C:\Users\Public\Documents\Datawatch Monarch\Export\classic.xls"
/T
```

The following command launches Monarch and export data from Table View, overwriting an existing named range or sheet called “Test” within an existing file called classic.xls.

```
"c:\Program Files\Datawatch Monarch 13\Monarch.exe"
/rpt:"C:\Users\Public\Documents\Datawatch Monarch\Reports\classic.prn"
/mod:"C:\Users\Public\Documents\Datawatch Monarch\Models\lesson11.dmod"
/expfileopt:add /exptableopt:overwrite /exptable:"Test"
/exp:"C:\Users\Public\Documents\Datawatch Monarch\Export\classic.xls"
/T
```

The following command launches Monarch, opens the password-protected file data.pdf and exports data.xls from Table View.

```
"c:\Program Files\Datawatch Monarch 13\Monarch.exe"
/rpt:"C:\Users\Public\Documents\Datawatch
Monarch\Reports\data.pdf@password"
/mod:"C:\Users\Public\Documents\Datawatch
Monarch\Models\modelFile.dmod"
/exp:"C:\Users\Public\Documents\Datawatch Monarch\Export\data.xls" /T
```

You may use any of the following methods to pass a command line to Monarch:

- Select **Start** > **Run**, type the command line in the *Open* box, and then choose **OK**. Use this method if you will need to use the command line only once.
- Create an icon that includes the command line. Use this method if you want to run the same Monarch session in the future, such as when you receive a new instance of a report file.
- Enter one or more command lines into a batch file (.bat or .cmd) and execute the batch file.

[2] Launching Quick Help

You can run quick help from the command line to view the available arguments.

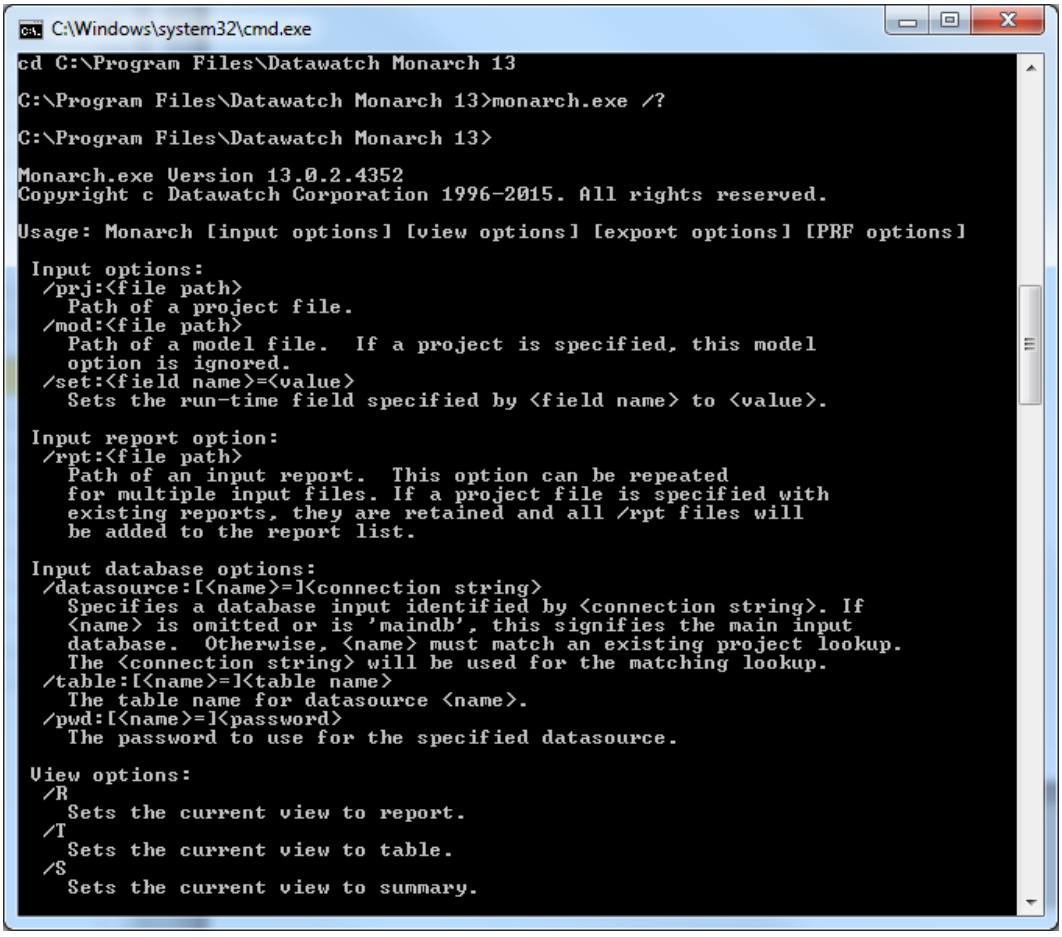
To view quick help, run the following from the command line.

"c:\Program Files\Datawatch Monarch 13\Monarch.exe" /?

NOTE The command above assumes that Monarch is installed in:

`c:\Program Files\Datawatch Monarch 13\Monarch\`

Invoking quick help displays several usage options on screen:



[3] Using Command Lines to Export Data

Once you have created a Model file for a Monarch session, you can use a Monarch command line to by-pass the Monarch menus and automatically launch a Monarch session and export data to any supported file format. By creating an icon that includes the command line, you can easily run the same Monarch session in the future. The command line syntax for exporting Monarch data is:

Monarch.exe /rpt:`[Report File]` **/mod:**`[Model File]` **/exp:**`[Export File]`

where `[Export File]` is the path of the export file you want to create.

For password-protected PDF files, the following syntax is used:

Monarch.exe /rpt:[Report File@Password] /mod:`[Model File]` **/exp:**`[Export File]`

Note: You may replace the /rpt and /mod parameters with a /prj parameter for a Project file that you want to use as input in the session. If the view parameter is omitted, Monarch will export data from Table View.

Example:

The following command line loads the Classic.prn report and the Lesson6.dmod Model file and then creates a text file (Classic.txt) from the data in Table View:

```
Monarch.exe /rpt:"C:\Users\Public\Documents\Datawatch
Monarch\Reports\classic.prn" /mod:"C:\Users\Public\Documents\Datawatch
Monarch\Models\lesson6.dmod" /exp:"classic.txt" /T
```

The command above assumes, for simplicity, that your report and Model folders are located in `C:\Users\Public\Documents\Datawatch Monarch\Reports\` and `C:\Users\Public\Documents\Datawatch Monarch\Models\`, respectively.

In most practical cases, your report and Model files will likely be located elsewhere.

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