# Quick3270

# Macro Language Reference Manual

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## Introduction

A macro is a series of recorded or coded commands you can run to complete tasks more quickly. Macros allow you to condense complex Quick3270 commands into a single command or keystroke.

There are two ways to create a macro with Quick3270. You can record the keystrokes you enter as you're working, and/or you can use the Macro Editor in conjunction with the Quick3270 Macro Language to code your macro.

#### To automate a series of tasks.

Instead of entering your user ID, password, and pressing the ENTER key each time you log on to your mainframe account, you can automate the process with a macro.

#### To automate an often-used sequence of commands and actions.

If you routinely open a mainframe application as part of your log on sequence, you can create a macro to open the application for you. If you've worked with macros or done some Basic programming before, much of the language information will be familiar to you.

## **Record a Keystroke Sequence**

If you regularly do the same things when you work with a host system, it is convenient to record the keystrokes you make and have Quick3270 play them back if you want to do the same job again. All your keystrokes can be saved to a file; when you play the file back (Run), everything that happened will be reproduced.

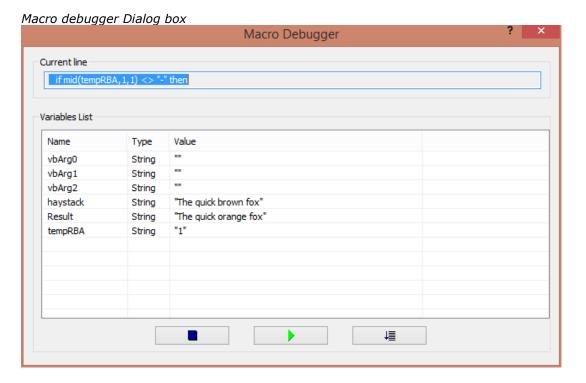
#### **Macro Language**

The macro language allows you to create scripts for use with Quick3270. Presented here are some script functions that are recognized by Quick3270. Creating or modifying macros should be done by those who have programming experience and are knowledgeable in VBScript.

#### **Debugging a Macro**

You can add the *debug* instruction in your macro code to display a dialog box that allows checking the list of variables (value and type).

This debug dialog box allows even to run the macro line per line.



# **Variables and Data Types**

In Quick3270 Basic, you use variables and constants to store values. Variables can contain data represented by any supported data type.

## **Data Types**

The following table lists the fundamental data types that the Macro language supports.

Data type	Description	Range
Integer	4-byte integer	- 2,147,483,648 to 2,147,483,647.
String	String of characters	Zero to 65535 characters
Boolean	2 bytes	True or False
Date	8 bytes	January 1, 100 to December 31, 9999
Object	4 bytes	Any object reference.

**Note**: Quick3270 macro language don't support arrays and floating point variables (Single / Double)

## Variable identifiers

The first character must be an alphabetic (A-Z, a-z) or an underscore character "\_". Subsequent characters can be alphabetic, underscore or numeric (0-9). Variable identifiers are not case sensitive. The maximum length is 32.

## Label identifiers

Label identifiers consist of alphabetic, underscore or numeric characters, and are not case sensitive. The maximum length is 32.

```
goto label
...
label:
```

## **Declaring Variable**

A variable is created the first time a value is assigned to it, as shown in the following samples, or with the Dim statement.

```
MyBoolean = True
MyInteger = 459
MyString = "Hello world"
MyObject = CreateObject("Excel.Application")
```

## **Dim Statement**

## **Description**

Declares variables and allocates storage space

#### Syntax

## Dim varname As type

Dim MyVar As Integer Dim MyString As String Dim MyDate As Date Dim MyObject As Object

## Const Statement.

#### **Description**

Declares constants for use in place of literal values.

#### **Syntax**

**Const** constname = expression

```
Const MyVar = 459
Const MyString = "Hello world"
```

## Build-In Symbolic Constants.

The macro language provides a number of predefined constants that can be used anywhere in your code in place of the actual values

Constant	Equivalent	Description
vbCrLf	Chr(13) + Chr(10)	Carriage return–linefeed combination.
vbCr	Chr(13)	Carriage return character
vbLf	Chr(10)	Linefeed character.
vbTab	Chr(9)	Tab character.
vbFormFeed	Chr(12)	Form feed character
vbBack	Chr(8)	Form feed character.

Other constants, specific to MsgBox, and Date variables are defined. You can get the list in the description of the MsgBox function

# **Data Type Functions**

#### Is

#### **Description**

Compares two object expressions and returns a value that indicates whether the expressions refer to the same object.

#### **Syntax**

If (expression2 Is expression2)

#### Remarks

Also use the Is operator to test whether an object variable has been Set to Nothing.

## **IsEmpty**

## **Description**

Returns a Boolean value indicating whether a variable has been initialized.

#### **Syntax**

**IsEmpty**(*expression*)

The expression argument can be any expression.

#### **Remarks**

**IsEmpty** returns **True** if expression is uninitialized, or explicitly set to Empty; otherwise, it returns **False**. **False** is always returned if expression contains more than one variable.

## **IsNull**

#### **Description**

Returns a Boolean value that indicates whether an expression contains no valid data (Null).

#### **Syntax**

IsNull(expression)

The expression argument can be any expression.

#### **Remarks**

**IsNull** returns **True** if expression is Null, that is, it contains no valid data; otherwise, **IsNull** returns **False**. If expression consists of more than one variable, Null in any constituent variable causes True to be returned for the entire expression.

## **IsNumeric**

## Description

Returns a **Boolean** value indicating whether an expression can be evaluated as a number.

## **Syntax**

## IsNumeric(expression)

The *expression* argument can be any expression.

#### Remarks

**IsNumeric** returns **True** if the entire expression is recognized as a number; otherwise, it returns **False**.

## VarType

## **Description**

Returns a value indicating the subtype of a variable.

## **Syntax**

**VarType**(*VarName*)

The varname argument can be any variable.

## **Return Values**

The **VarType** function returns the following values:

Constant	Value	Description
vbEmpty	0	Empty (uninitialized)
vbInteger	3	Integer
vbString	8	String
vbObject	9	Automation object
vbBoolean	11	Boolean

# **Control Commands**

## Call Statement

## **Description**

Transfers control to another macro file.

When the **Exit** command in the second macro file is encountered, execution returns to the command that follows **Call** statement

Up to 10 levels of macro files can be called

## **Syntax**

Call MacroFilename

## Do While...Loop

## **Description**

Repeats a block of statements while a **Boolean** condition is **True** or until the condition becomes **True**.

## **Syntax**

**Do While** condition Version [statements]

Loop

The Do While...Loop statement syntax has these parts:

Part	Description
condition	Numeric or string expression that evaluates to True or False. If condition is Null, condition is treated as False.
statements	One or more statements executed while condition is True.

## **End**

## **Description**

Terminates an application.

## **Syntax**

End

## **Exit**

## **Description**

Immediately exits the execution of the current macro file and returns to the calling macro file if any.

## **Syntax**

Exit

## **Exit Session**

## **Description**

Immediately stops the execution of the macro and exits the Quick3270 program, with no user prompt.

## **Syntax**

**Exit Session** 

## **Exit Sub**

## **Description**

Immediately exits the Sub procedure in which it appears. The Exit Sub statement is equivalent to the Return statement.

## **Syntax**

**Exit Sub** 

## For...Next Statement

## Description

Repeats a group of statements a specified number of times.

#### Syntax

```
For counter = start To end [Step step]
  [statements]
  [Exit For]
  [statements]
```

## Next

The **For...Next** statement syntax has these parts:

Part	Description
counter	Numeric variable used as a loop counter.
start	Initial value of counter.
end	Final value of counter.
step	Amount counter is changed each time through the loop. If not specified, step defaults to one.
statements	One or more statements between For and Next that are executed the specified number of times.
Exit For	Optional. Transfers control out of the <b>For</b> loop.
Next	Required. Terminates the definition of the <b>For</b> loop.

## GoSub

## **Description**

Subroutine call. When you use the **GoSub** command, execution is transferred to the specified label and continues until a **Return/End Sub** command is encountered, at which point execution returns to the command that follows **GoSub**.

## **Syntax**

GoSub label

or

GoSub Subroutine name

where label is defined by the **Label** identifier and Subroutine name defined by a **Sub** procedure. In case of a Sub procedure, the **GoSub** statement is optional. A Sub procedure can be called directly by is procedure name.

## **GoTo**

#### **Description**

Branches unconditionally to a specified label.

## **Syntax**

#### GoTo label

where label is defined by the Label command.

## If...Then...Else Statement

## **Description**

Conditionally executes a group of statements, depending on the value of an expression.

#### Syntax

```
If condition Then statements [Else elsestatements]

Or, you can use the block form syntax:

If condition Then
   [statements]

[ElseIf condition-n Then
   [elseifstatements]] . . .

[Else
   [elsestatements]]

Endif
```

## The **If...Then...Else** statement syntax has these parts:

Part	Description
condition	One or more of the following two types of expressions: A numeric or string expression that evaluates to True or False. If condition is Null, condition is treated as False.
statements	One or more statements separated by colons; executed if condition is True.
condition-n	Same as condition.
elseifstatements	One or more statements executed if the associated condition-n is True.
elsestatements	One or more statements executed if no previous condition or condition-n expression is True.

#### Remarks

You can use the single-line form (first syntax) for short, simple tests. However, the block form (second syntax) provides more structure and flexibility than the single-line form and is usually easier to read, maintain, and debug.

## Quit

## **Description**

Terminates a macro (same as Exit).

## **Syntax**

Quit

## Return

## **Description**

Returns to the command that follows the last executed **GoSub** command.

#### **Syntax**

Return

## Stop

#### **Description**

Terminates a macro (same as Exit).

**Stop** statements can be placed anywhere in a program to suspend its execution.

#### **Syntax**

Stop

## Sub...End Sub Statement

## **Description**

Executes a series of statements within the body of the Sub procedure.

## **Syntax**

**Sub** name [statements]

End Sub

The Sub...End Sub statement syntax has these parts:

Part	Description
name	Name of the Sub; follows standard variable naming conventions
statements	Any group of statements to be executed within the body of the Sub procedure.

#### **Remarks**

If condition is **True**, all statements in statements are executed until the **Wend** statement is encountered. Control then returns to the **While** statement and condition is again checked. If condition is still **True**, the process is repeated. If it is not **True**, execution resumes with the statement following the Wend statement.

While...Wend loops can be nested to any level. Each Wend matches the most recent While.

## While... Wend Statement

## **Description**

Executes a series of statements as long as a given condition is True.

#### **Syntax**

While condition Version [statements]

Wend

The While...Wend statement syntax has these parts:

Part	Description
condition	Numeric or string expression that evaluates to True or False. If condition is Null, condition is treated as False.
statements	One or more statements executed while condition is True.

#### **Remarks**

If condition is **True**, all statements in statements are executed until the **Wend** statement is encountered. Control then returns to the **While** statement and condition is again checked. If condition is still **True**, the process is repeated. If it is not **True**, execution resumes with the statement following the Wend statement.

While...Wend loops can be nested to any level. Each Wend matches the most recent While.

## Whith...End With Statement

## **Description**

Executes a series of statements making repeated reference to a single object or structure.

## **Syntax**

Whith object [statements]

#### **End With**

The While...Wend statement syntax has these parts:

Part	Description	
object	Required. Variable or expression. Can evaluate to any data type, including elementary types.	
statements	Optional. One or more statements between With and End With that run on object.	

#### **Remarks**

**With...End With** allows you to perform a series of statements on a specified object without requalifying the name of the object.

**Nesting Structures**. Quick3270 don't allow to nest **With...End With** structures.

# **String functions**

## Chr or Chr\$

## **Description**

Returns the character associated with the specified ANSI character code.

## **Syntax**

**Chr**(charcode)

The charcode argument is a number that identifies a character

#### Remarks

Numbers from 0 to 31 are the same as standard, nonprintable ASCII codes. For example,  $\mathbf{Chr}(10)$  returns a linefeed character.

The following example uses the **Chr** function to return the character associated with the specified character code:

```
Dim MyChar

MyChar = Chr(65) ' Returns A.

MyChar = Chr(97) ' Returns a.

MyChar = Chr(62) ' Returns >.

MyChar = Chr(37) ' Returns %.
```

## **CStr**

## **Description**

The following table describes the return values for **CStr** for different data types of expression

If expression type is	CStr returns
Boolean Data Type	A string containing "True" or "False".
Date Data Type	A string containing a <b>Date</b> value (date and time) in the short date format of your system.
Numeric Data Types	A string representing the number.

## **InStr**

## Description

Returns the position of the first occurrence of one string within another.

## **Syntax**

InStr(string1, string2)

## **Parameters**

Part	Description	
string1	Required. String expression being searched.	
string2	Required. String expression searched for.	

## **Return Values**

The **InStr** function returns the following values:

If	InStr returns
string2 is not found	0
string2 is found within string1	Position at which match is found

## LCase or LCase\$

## Description

Returns a string converted to lowercase.

## **Syntax**

**LCase**(*string*) or **LCase**\$(*string*)

## Left or Left\$

## **Description**

Returns a String containing a specified number of characters from the left side of a string.

## **Syntax**

**Left**(string, length)

#### **Parameters**

Part	Description	
string	Required. String expression from which the leftmost characters are returned.	
length	Required. Numeric expression indicating how many characters to return.	

## Len

## **Description**

Returns the number of characters in a string.

## **Syntax**

**Len**(string)

## Mid or Mid\$

## Description

Returns a specified number of characters from a string.

## **Syntax**

Mid(string, start[, length])

## **Parameters**

Part		Description
string	String	String expression from which characters are returned.
start	Integer	Character position in string at which the part to be taken begins
length	Integer	Number of characters to return. If omitted or if there are fewer than length characters in the text (including the character at start), all characters from the start position to the end of the string are returned.

## Replace or Replace\$

## **Description**

Returns a string in which a specified substring has been replaced with another substring.

## **Syntax**

**Replace**(*expression*, *find*, *replacement*)

#### **Parameters**

Part	Description
expression	Required. String expression containing substring to replace.
find	Required. Substring being searched for.
replacement	Required. Replacement substring

## **Example**

```
expression = "The quick brown fox"
Result = Replace(expression, "brown", "orange")
'returns "The quick orange fox"
```

## Right or Right\$

## Description

Returns a String containing a specified number of characters from the right side of a string.

## **Syntax**

Right(string, length)

#### **Parameters**

Part	Description	
string	Required. String expression from which the rightmost characters are returned.	
length	Required. Numeric expression indicating how many characters to return.	

## Space or Space\$

## **Description**

Returns a string consisting of the specified number of spaces.

#### **Syntax**

**Space**(number) or **Space**\$(number)

The number argument is the number of spaces you want in the string.

#### Remarks

The following example uses the Space function to return a string consisting of a specified number of spaces:

```
Dim MyString
MyString = Space(10)
MyString = "Hello" & Space(10) & "World" ' Insert 10 spaces between two strings.
```

## Str or Str\$

## **Description**

Returns a String representation of a number.

## **Syntax**

**Str**(number)

The required number argument is a Integer containing any valid numeric expression.

## Remarks

When numbers are converted to strings, a leading space is always reserved for the sign of number. If number is positive, the returned string contains a leading space and the plus sign is implied.

## **StrComp**

## **Description**

Returns a value indicating the result of a string comparison.

## **Syntax**

StrComp(string1, string2)

#### **Parameters**

Part	Description	
string1	Required. Any valid string expression.	
string2	Required. Any valid string expression.	

## **Return Values**

The **StrComp** function has the following return values:

If	StrComp returns
string1 is less than string2	-1
string1 is equal to string2	0
string1 is greater than string2	1

## Trim

## **Description**

Returns a string that contains a copy of a specified string without leading or trailing spaces

## **Syntax**

Trim(expression)

# **UCase or UCase**\$

## **Description**

Returns a string converted to uppercase.

## **Syntax**

UCase(string) or UCase\$(string)

## Val

## **Description**

Returns the numbers contained in a string as a numeric value of appropriate type.

## **Syntax**

Val(string)

The required string argument is any valid string expression.

#### Remarks

The **Val** function stops reading the string at the first character it can't recognize as part of a number. Symbols and characters that are often considered parts of numeric values, such as dollar signs and commas, are not recognized. However, the function recognizes the radix &H (for hexadecimal).

# File functions and statements

## **Open**

## **Description**

Enables input/output (I/O) to a file.

## **Syntax**

**Open** pathname **For** mode **As** [#]filenumber [**Len**=reclength]

The Open statement syntax has these parts:

Part	Туре	Description
Pathname	String	Required. String expression that specifies a file name - may include directory or folder, and drive.
Mode		Required. Keyword specifying the file mode: Append, Binary, Input, Output, or Random. If unspecified, the file is opened for Random access.
Filenumber	Integer	Required. A valid file number in the range 1 to 10, inclusive. Use the FreeFile function to obtain the next available file number.
Reclength	Integer	Optional. Number less than or equal to 32,767 (bytes). For files opened for random access, this value is the record length. For sequential files, this value is the number of characters buffered.

## Remarks

You must open a file before any I/O operation can be performed on it. Open allocates a buffer for I/O to the file and determines the mode of access to use with the buffer.

## Close

## **Description**

Concludes input/output (I/O) to a file opened using the **Open** statement.

#### **Syntax**

Close filenumber

The *filenumber* is any valid file number:

## Remarks

When the **Close** statement is executed, the association of a file with its file number ends.

## LineInput or Line Input

## **Description**

Reads a single line from an open sequential file and assigns it to a String variable.

#### **Syntax**

**LineInput** #filenumber, varname

The **LineInput** # statement syntax has these parts:

Part	Туре	Description
filenumber	Integer	Required. Any valid file number.
varname	String	Required. Valid String variable name.

#### **Remarks**

The **LineInput** # statement reads from a file one character at a time until it encounters a carriage return (Chr(13)) or carriage return-linefeed (Chr(13) + Chr(10)) sequence.

## Print #

## **Description**

Writes display-formatted data to a sequential file.

## **Syntax**

Print #filenumber, [outputlist]

The **Print #** statement syntax has these parts:

Part	Туре	Description	
filenumber	Integer	Required. Any valid file number.	
outputlist*	putlist* Optional. Expression or list of expressions to print.		

## Remarks

Data written with **Print** # is usually read from a file with **LineInput** #. outputlist\* Quick3270 supports only one expression. Not possible currently to specify a list of expressions delimited by commas.

## Write #

## **Description**

Writes data to a sequential file.

## **Syntax**

**Write** #filenumber, [outputlist]

The **Write** # statement syntax has these parts:

Part	Туре	Description	
filenumber	Integer	Required. Any valid file number.	
outputlist		Optional. One or more comma-delimited numeric expressions or string expressions to write to a file.	

## Seek #

## Description

Sets the position for the next read/write operation within a file opened using the Open statement.

## **Syntax**

**Seek** #filenumber, position

The **Seek** # statement syntax has these parts:

Part	Туре	Description	
filenumber	Integer	Required. Any valid file number.	
position	Integer	Required. Number in the range $1-2,147,483,647$ , inclusive, that indicates where the next read/write operation should occur.	

## Get #

## **Description**

Reads data from an open disk file into a variable.

## **Syntax**

**Get** #filenumber, [recnumber], varname

The **Get** # statement syntax has these parts:

Part	Туре	Description	
filenumber	Integer	Required. Any valid file number.	
recnumber	Integer	Optional. Byte number at which reading begins	
varname	String	Required. Valid variable name into which data is read.	

## Put #

## **Description**

Writes data from a variable to a disk file.

#### **Syntax**

Put #filenumber, [recnumber], varname

The **Put** # statement syntax has these parts:

Part	Туре	Description	
filenumber	Integer	Required. Any valid file number.	
recnumber	Integer	Optional. Byte number at which reading begins	
varname	String	Required. Valid variable name into which data is read.	

## **EOF**

## Description

Returns the Boolean value True when the end of a file has been reached.

## **Syntax**

**EOF**(filenumber)

The required filenumber argument is an Integer containing any valid file number.

## FreeFile

## **Description**

Returns an Integer representing the next file number available for use by the Open statement.

## **Syntax**

FreeFile()

#### Remarks

Use FreeFile to supply a file number that is not already in use.

## Loc

## **Description**

Returns an Integer specifying the current read/write position within an open file.

#### **Syntax**

**Loc**(*filenumber*)

The required filenumber argument is an Integer containing any valid file number.

## **LOF**

## **Description**

Returns an Integer representing the size, in bytes, of a file opened using the Open statement.

## **Syntax**

**LOF**(*filenumber*)

The required filenumber argument is an Integer containing any valid file number.

## Kill

## **Description**

Deletes a file from a disk.

## **Syntax**

Kill pathname

The required pathname argument is a string expression that specifies one a file name to be deleted. The pathname may include the directory or folder, and the drive.

# **Date / Time functions**

Date variables are stored as IEEE 64-bit (8-byte) floating-point numbers that represent dates ranging from 1 January 100 to 31 December 9999 and times from 0:00:00 to 23:59:59. Any recognizable literal date values can be assigned to Date variables. Date literals must be enclosed within number signs (#).

Sample of date literals: #January 1, 1993# #1 Jan 93# # 8/23/1970 3:45:39AM # # 8/23/1970 # # 3:45:39AM # # 3:45:39 # # 13:45:39 # # 1AM #

Date variables display dates according to the short date format recognized by your computer. Times display according to the time format (either 12-hour or 24-hour) recognized by your computer.

#### Remark

Support of date variables and related functions have been added in version 4.37

## Build-In Symbolic Constants.

The macro language provides a number of predefined constants that can be used anywhere in your code in place of the actual values

Constant	Value	Description
vbSunday	1	Sunday (default).
vbMonday	2	Monday
vbTuesday	3	Tuesday.
vbWednesday	4	Wednesday.
vbThursday	5	Thursday
vbFriday	6	Friday.
vbSaturday	7	Saturday
vbUseSystemDayOfWeek	0	Use the day of the week specified in your system settings for the first day of the week.
vbFirstJan1	1	Start with week in which January 1 occurs (default).
vbFirstFourDays	2	Start with the first week that has at least four days in the new year.
vbFirstFullWeek	3	Start with the first full week of the year.

## Date\$

## Description

Returns a string containing the current system date.

## **Syntax**

d = Date\$()

## Time\$

## Description

Returns a string containing the current system time.

## **Syntax**

d = Time\$()

## Day

## **Description**

Returns an Integer specifying a whole number between 1 and 31, inclusive, representing the day of the month.

## **Syntax**

MyDay = Day(date)

#### Example

```
Dim MyDate As Date
Dim MyDay As Integer
MyDate = #May 20, 1963# 'Assign a date.
MyDay = Day(MyDate) 'MyDay contains 20
```

## **Month**

## **Description**

Returns an Integer specifying a whole number between 1 and 12, inclusive, representing the month of the year.

## **Syntax**

MyMonth = Month(date)

## **Example**

```
Dim MyDate As Date
Dim MyMonth As Integer
MyDate = #May 20, 1963# ' Assign a date.
MyMonth = Month(MyDate) ' MyMonth contains 5
```

## Year

## **Description**

Returns an Integer specifying a whole number representing the year.

## **Syntax**

MyYear = Year(date)

## **Example**

```
Dim MyDate As Date
Dim MyYear As Integer
MyDate = #May 20, 1963# ' Assign a date.
MyYear = Year(MyDate) ' MyYear contains 1963
```

## **DateAdd**

## **Description**

Returns a Date value containing a date to which a specified time interval has been added.

#### **Syntax**

**DateAdd**(interval, number, date)

#### **Parameters**

Part	Туре	Description
interval	String	Required. String expression that is the interval of time you want to add
number	String	Required. Numeric expression that is the number of intervals you want to add. It can be positive (to get dates in the future) or negative (to get dates in the past).
date	String	Required. Date or literal representing date to which the interval is added.

## **Settings**

Currently supported *interval* argument:

Setting	Description
уууу	Year
m	Month
d	Day
h	Hour
n	Minut
S	Second

## Remarks

You can use the **DateAdd** function to add or subtract a specified time interval from a date. For example, you can use **DateAdd** to calculate a date 30 days from today or a time 45 minutes from now.

To add days to *date*, you can use Day of Year ("y"), Day ("d"), or Weekday ("w").

The **DateAdd** function won't return an invalid date. The following example adds one month to January 31:

DateAdd("m", 1, "31-Jan-95")

In this case, **DateAdd** returns 28-Feb-95, not 31-Feb-95. If *date* is 31-Jan-96, it returns 29-Feb-96 because 1996 is a leap year.

If the calculated date would precede the year 100 (that is, you subtract more years than are in *date*), an error occurs.

## **DateSerial**

## **Description**

Returns a Date value for a specified year, month, and day.

## **Syntax**

**DateSerial**(year, month, day)

#### **Parameters**

Part	Type	Description
year	Integer	Required. Number between 100 and 9999, inclusive, or a numeric expression
month	Integer	Required. Any numeric expression.
day	Integer	Required. Any numeric expression.

## **Example**

```
Dim MyDate
' MyDate contains the date for May 20, 1963.
MyDate = DateSerial(1963, 5, 20) ' Return a date.
```

## **DateValue**

## **Description**

Returns a date value from the string expression representing a date.

## **Syntax**

**DateValue**(date)

## **Parameter**

Part	Type	Description
date	String	Required. String expression representing a date from January 1, 100 through December 31, 9999. However, date can also be any expression that can represent a date, a time, or both a date and time, in that range.

#### **Example**

## **Format**

## Description

Returns a String containing an expression formatted according to instructions contained in a format expression.

## **Syntax**

Format(expression[, format])

#### **Parameters**

Part	Type	Description
expression	Date	Required. Any valid date expression.
format	String	Optional. Any named or user defined format expression.

## **Predefined Named Date/Time formats.**

The following table identifies the predefined date and time format names:

Format Name	Description
General Date	Displays a date and/or time. Date display is determined by your application's current culture value.
Long Date	Display a date according to your system's long date format.
Medium Date	Display a date using the medium date format appropriate for the language version of the host application.
Short Date	Display a date using your system's short date format.
Long Time	Display a time using your system's long time format; includes hours, minutes, seconds.
Medium Time	Display time in 12-hour format using hours and minutes and the AM/PM designator.
Short Time	Display a time using the 24-hour format, for example, 17:45.

## **User-Defined Date/Time Formats.**

Descriptions preceded by an asterisk: They are differences with the Format function used in VBA (Visual Basic for Applications).

The following table identifies characters you can use to create user-defined date/time formats:

Format Name	Description
d	Display the day as a number without a leading zero $(1-31)$ .
dd	Display the day as a number with a leading zero $(01 - 31)$ .
ddd	Display the day as an abbreviation (Sun – Sat).
dddd	Display the day as a full name (Sunday – Saturday).
M	*Display the month as a number without a leading zero $(1-12)$ .
MM	*Display the month as a number with a leading zero $(01 - 12)$ .
MMM	*Display the month as an abbreviation (Jan – Dec).
MMMM	*Display the month as a full month name (January – December).
у	Year represented only by the last digit.
уу	Year represented only by the last two digits. A leading zero is added for single-digit years.
уууу	Year represented by a full four or five digits, depending on the calendar used.
h	*Hours without leading zeros for single-digit hours (12-hour clock).
hh	*Hours with leading zeros for single-digit hours (12-hour clock).
Н	*Hours without leading zeros for single-digit hours (24-hour clock).
НН	*Hours with leading zeros for single-digit hours (24-hour clock).
m	*Minutes without leading zeros for single-digit minutes.
mm	*Minutes with leading zeros for single-digit minutes.
s	*Seconds without leading zeros for single-digit seconds.
SS	*Seconds with leading zeros for single-digit seconds.

## **Example**

## Now

## **Description**

Returns a Date value containing the current system date and time.

#### **Syntax**

d = Now

## **TimeSerial**

## **Description**

Returns a Date containing the time for a specific hour, minute, and second.

## **Syntax**

**TimeSerial**(hour, minute, second)

#### **Parameters**

Part	Type	Description	
hour	Integer	equired. Number between 0 (12:00 A.M.) and 23 (11:00 P.M.), inclusive.	
minute	Integer	Required. Any numeric expression.	
second	Integer	Required. Any numeric expression.	

#### **Example**

```
Dim MyTime As Date
MyTime = TimeSerial(16, 35, 17) 'Serial representation of 4:35:17 PM.
```

## **TimeValue**

## **Description**

Returns a date value from the string expression representing a time.

# Syntax

**TimeValue**(time)

#### **Parameter**

Part	Type	Description	
time	String	Required. String expression string expression representing a time from 0:00:00 (12:00:00 A.M.) to 23:59:59 (11:59:59 P.M.), inclusive.	

## **Example**

```
Dim MyTime As Date
MyTime = TimeValue("4:35:17 PM") ' Return a time.
```

# **COM functions**

In Quick3270 Macro, you can access an object and use the originating software application to change properties and methods of that object. You can programmatically manipulate the data in these objects.

Before you can use an object in a procedure, however, you must access the software application associated with the object by assigning it to an object variable. Next, you attach an object name (with or without properties and methods) to the variable to manipulate the object.

# **CreateObject**

#### **Description**

Creates and returns a reference to an Automation object.

#### **Syntax**

CreateObject(servername.typename)

#### **Parameters**

Part	Туре	Description		
servername	String	Required. The name of the application providing the object.		
typename	String	Required. The type or class of the object to create.		

#### Remarks

Automation servers provide at least one type of object. For example, a word-processing application may provide an application object, a document object, and a toolbar object.

To create an Automation object, assign the object returned by **CreateObject** to an object variable:

Set ExcelSheet = CreateObject("Excel.Sheet")

# **GetObject**

#### **Description**

Returns a reference to an Automation object from a file.

#### **Syntax**

GetObject([pathname] [, class])

#### **Parameters**

Part	Туре	Description	
pathname	String	Optional. Full path and name of the file containing the object to retrieve. If pathname is omitted, class is required.	
class	String	Optional. Class of the object.	

The class argument uses the syntax appname.objectype and has these parts:

Part	Туре	Description		
appname	String	Required. Name of the application providing the object.		
objectype	String	Required. Type or class of object to create.		

#### Remarks

Use the **GetObject** function to access an Automation object from a file and assign the object to an object variable. Use the Set statement to assign the object returned by **GetObject** to the object variable. For example:

```
Set CADObject = GetObject("C:\CAD\SCHEMA.CAD")
```

When this code is executed, the application associated with the specified pathname is started and the object in the specified file is activated. If pathname is a zero-length string (""), **GetObject** returns a new object instance of the specified type. If the pathname argument is omitted, **GetObject** returns a currently active object of the specified type. If no object of the specified type exists, an error occurs.

# **Miscellaneous functions and statements**

# Beep

#### **Description**

Sounds a tone through the computer's speaker. The frequency and duration of the beep depends on hardware, which may vary among computers

#### **Syntax**

Beep

# Decrypt or Decrypt \$

## **Description**

Returns the String decrypted.

## **Syntax**

**Decrypt** (str) or **Decrypt** \$(str)

#### **Parameter**

Part	Туре	Description	
str	String	Required; String expression that will be decrypted.	

## Remark

Added in version 4.30

# Encrypt or Encrypt\$

#### **Description**

Returns the String encrypted.

#### **Syntax**

Encrypt(str) or Encrypt \$(str)

#### **Parameter**

Part	Туре	Description	
str	String	Required; String expression that will be encrypted.	

#### Remark

Added in version 4.30

# **Environ or Environ\$**

## **Description**

Returns the String associated with an operating system environment variable.

#### **Syntax**

**Environ**(str) or **Environ**\$(str)

#### **Parameter**

Part	Туре	Description
str	String	Required; String expression containing the name of an environment variable.

#### Remark

Added in version 4.30

# **GetOpenFileName**

## **Description**

This function creates a system-defined dialog box that enables the user to select a file to open.

#### **Syntax**

**GetOpenFileName**(title, pathname, filter)

#### **Parameters**

Part	Type	Description		
title	String	equired. String to be placed in the title bar of the dialog box		
pathname	String	Required. String that can specify the initial directory.		
filter	String	Required. String containing pairs filters separated by the ' ' character.		

# **GetSpecialFolderLocation**

#### **Description**

This function retrieves the full path of a known folder identified by the folder's CSIDL.

#### Syntax

#### **GetOpenFileName**(CSIDL)

#### Remark

Added in version 4.40

# **InputBox**

#### **Description**

Displays a prompt in a dialog box, waits for the user to input text or click a button, and returns the contents of the text box.

#### **Syntax**

InputBox(prompt[, title][, default])

#### **Parameters**

Part	Туре	Description	
prompt	String	Required. String expression displayed as the message in the dialog box.	
title	String	Optional. String expression displayed in the title bar of the dialog box. If you omit title, the application name is placed in the title bar.	
default	String	Optional. String expression displayed in the text box as the default response if no other input is provided. If you omit default, the text box is displayed empty.	

#### Remarks

If the user clicks OK or presses ENTER, the **InputBox** function returns whatever is in the text box. If the user clicks Cancel, the function returns a zero-length string ("").

# **MsgBox**

## **Description**

Displays a message in a dialog box, waits for the user to click a button, and returns a value indicating which button the user clicked.

#### **Syntax**

Result = MsgBox(prompt[, buttons][, title])
or
MsgBox prompt, buttons][, title]

#### **Parameters**

Part	Туре	Description		
prompt	String	String expression displayed as the message in the dialog box. The maximum length of prompt is approximately 1024 characters, depending on the width of the characters used. If prompt consists of more than one line, you can separate the lines using a carriage return character (Chr(13)), a linefeed character (Chr(10)), or carriage return–linefeed character combination (Chr(13) & Chr(10)) between each line. You can even use the system defined constants like vbCR, vbLf, vbCrLf		
buttons	Integer	Optional. Numeric expression that is the sum of values specifying the number and type of buttons to display, the icon style to use, the identity of the default button, and the modality of the message box. See Settings section for values. If omitted, the default value for buttons is 0.		
title	String	String expression displayed in the title bar of the dialog box. If you omit title, the application name is placed in the title bar.		

## **MsgBox Constants**

The following constants are used with the MsgBox function to identify what buttons and icons appear on a message box and which button is the default. In addition, the modality of the **MsgBox** can be specified. Since these constants are built into Quick3270 Scripting language, you don't have to define them before using them. Use them anywhere in your code to represent the values shown for each.

Constant	Value	Description
vbOKOnly	0	Display OK button only.
vbOKCancel	1	Display OK and Cancel buttons.
vbAbortRetryIgnore	2	Display Abort, Retry, and Ignore buttons.
vbYesNoCancel	3	Display Yes, No, and Cancel buttons.
vbYesNo	4	Display Yes and No buttons.
vbRetryCancel	5	Display Retry and Cancel buttons.
vbCritical	16	Display Critical Message icon.
vbQuestion	32	Display Warning Query icon.
vbExclamation	48	Display Warning Message icon.
vbInformation	64	Display Information Message icon.
vbDefaultButton1	0	First button is the default.

Constant	Value	Description
vbDefaultButton2	256	Second button is the default.
vbDefaultButton3	512	Third button is the default.
vbDefaultButton4	768	Fourth button is the default.
vbApplicationModal	0	Application modal. The user must respond to the message box before continuing work in the current application.
vbSystemModal	4096	System modal. This constant provides an application modal message box that always remains on top of any other programs you may have running.
vbMsgBoxHelpButton	16384	Adds Help button to the message box
vbMsgBoxSetForeground	65536	Specifies the message box window as the foreground window
vbMsgBoxRight	524288	Text is right aligned
vbMsgBoxRtlReading	1048576	Specifies text should appear as right-to-left reading on Hebrew and Arabic systems

# MsgBox Return Values.

The following constants are used with the **MsgBox** function to identify which button a user has selected. These constants are built into Quick3270 Scripting language; you don't have to define them before using them.

Constant	Value	Description
vbOK	1	OK button was clicked.
vbCancel	2	Cancel button was clicked.
vbAbort	3	Abort button was clicked.
vbRetry	4	Retry button was clicked.
vbIgnore	5	Ignore button was clicked.
vbYes	6	Yes button was clicked.
vbNo	7	No button was clicked.

## **PasswordBox**

## **Description**

Displays a prompt in a dialog box, waits for the user to input text or click a button, and returns the contents of the text box. The Input text is hidden and replaced by asterisk `\*'.

#### **Syntax**

PasswordBox(prompt[, title][, default])

#### **Parameters**

Part	Туре	Description
prompt	String	Required; String expression displayed as the message in the dialog box.
title	String	Optional; String expression displayed in the title bar of the dialog box. If you omit title, the application name is placed in the title bar.
default	String	String expression displayed in the text box as the default response if no other input is provided. If you omit default, the text box is displayed empty.

#### Remarks

If the user clicks OK or presses ENTER, the PasswordBox function returns whatever is in the text box. If the user clicks Cancel, the function returns a zero-length string ("").

#### Rem

#### **Description**

Used to include explanatory remarks in a program. You can use an apostrophe (') instead of the Rem keyword.

## **Syntax**

Rem Comment

You can also use the following syntax:

<sup>&#</sup>x27; comment

# Shell

#### **Description**

Runs an executable program and returns an Integer representing the program's task ID if successful, otherwise it returns zero.

#### **Syntax**

**Shell**(pathname[,windowstyle])

#### **Parameters**

Part	Туре	Description
pathname	String	Required; Name of the program to execute and any required arguments or command-line switches; may include directory or folder and drive.
windowstyle	Integer	Optional. Integer corresponding to the style of the window in which the program is to be run. If windowstyle is omitted, the program is started minimized with focus. In Attachmate's Extra! compatibility mode, the default windowstyle is normal with focus.

The windowstyle named argument has these values:

Constant	Value	Description
vbHide	0	Window is hidden and focus is passed to the hidden window.
vbNormalFocus	1	Window has focus and is restored to its original size and position.
vbMinimizedFocus	2	Window is displayed as an icon with focus.
vbMaximizedFocus	3	Window is maximized with focus.
vbNormalNoFocus	4	Window is restored to its most recent size and position. The currently active window remains active.
vbMinimizedNoFocus	6	Window is displayed as an icon. The currently active window remains active.

#### Remarks

Each pair of adjacent double quotation marks (" ") within the string literal is interpreted as one double quotation character in the string.

Result = Shell("""C:\Program Files\display.exe"" -a -q", vbNormalFocus)

Therefore, the preceding example presents the following string to the Shell function: "C:\Program Files\display.exe" -a -q

If the path is not enclosed in quotation marks, Windows looks for a file called Program.exe in the C:\directory, instead of display.exe in the C:\Program Files directory.

# **Quick3270 functions and statements**

#### **ConvertCol**

#### **Description**

Returns the column corresponding to the given presentation space positional value.

#### **Syntax**

ConvertCol(location)

#### **Parameters**

Part	Туре	Description
location	Integer	Required; Host presentation space position. The lower limit for valid input is 1. The upper limit for valid input ranges from 1920 to 3564 depending on how the host presentation space is configured

#### **ConvertRow**

#### **Description**

Returns the row corresponding to the given presentation space positional value.

## **Syntax**

ConvertRow(location)

#### **Parameters**

Part	Туре	Description
location	Integer	Required; Host presentation space position. The lower limit for valid input is 1. The upper limit for valid input ranges from 1920 to 3564 depending on how the host presentation space is configured

# **EditCopy**

#### **Description**

Copies the content of the selected presentation space area to the clipboard. If no area is selected, the entire presentation space is copied to the clipboard.

#### **Syntax**

EditCopy

# **EditCopyAdd**

#### **Description**

Append the content of the selected presentation space area to the clipboard. If no area is selected, the entire presentation space is appended to the clipboard.

## **Syntax**

# EditCopyAdd

# **EditPaste**

## **Description**

Copies the content of the clipboard to the presentation space at the current cursor location.

#### Syntax

**EditPaste** [Options]

## **Options**

Part	Description
RowOriented	Paste rows of text that end with carriage returns or line feeds.  If not specified, paste is field oriented. Carriage returns, line feeds or tab stops will jump to the next field.
FieldTruncation	If the end of a field is encountered, the remaining characters will be used to continue the paste operation.  If not specified, the remaining characters until carriage returns, line feeds or tab stops will be lost.
WordWrap	Avoid words being split across fields and lines
Protected	Pastes from the clipboard to the selected area of the destination screen, regardless of whether these fields are protected or unprotected.
Continue	Keep the not pasted characters into the clipboard for a next paste operation.
UpdateCursorPos	Moves the cursor to the end of the pasted data.
TabJump	When a tab character is encountered, the following text data will be pasted into the next field. If not selected, the tab character is handled as a space character.
TabStop	The tab stop is replaced by default by 4 space characters.
FillWithSpaces	Fill the end of a field with space characters. If not selected, the end of the field is filled with null characters.

# **EditSelectAll**

## **Description**

Selects the entire screen.

# **Syntax**

**EditSelectAll** 

## **GetCol**

#### **Description**

Returns an Integer representing the column position of the cursor.

#### **Syntax**

GetCol()

## **GetCols**

## **Description**

Returns an Integer representing the number of columns of the presentation space.

#### **Syntax**

GetCols()

## **GetRow**

#### **Description**

Returns an Integer representing the row position of the cursor.

#### **Syntax**

GetRow()

# **GetRows**

#### **Description**

Returns an Integer representing the number of rows of the presentation space.

#### **Syntax**

GetRows()

#### **GetRowCount**

## **Description**

Returns an Integer representing the number of occurrence of a specified character at a given column.

#### **Syntax**

GetRowCount(token, column [, firstrow [,lastrow]])

#### **Parameters**

Part	Туре	Description
token	String	Required; The token to search for. If the string contains more than one character, the function

		uses the first character.
column	Integer	Required. The column where to search the token.
firstrow	Integer	Optional. The first row where to begin to search. Default is 1.
lastrow	Integer	Optional. The row where to stop the search. Default is the last row of the presentation space.

# Remarks

The purpose of this function is to quickly count rows that contain data. For example if a transaction displays a result as a list.

## **GetColor**

## **Description**

Returns an Integer representing the color code at the given screen location.

#### **Syntax**

**GetColor**(row, col)

#### **Parameters**

Part	Туре	Description
row	Integer	The row where the color attribute is read.
col	Integer	The column where color attribute is read.

#### **GetColor Return Values.**

The following values are returned:

- 0 default Color/Green
- 1 Blue
- 2 Red
- 3 Pink
- 4 Green
- 5 Turquoise
- 6 Yellow
- 7 White

# **GetIpAddress**

#### **Description**

This function returns the IP address of the computer running Quick3270.

#### **Syntax**

String = **GetIpAddress**(index)

#### **Parameter**

Part	Туре	Description
index	Integer	Required. As a Pc can have several network adapters, it can have several IP addresses. So the GetIpAddress function uses an index, the first address is on index = 0. It's possible to get all the IP addresses by incrementing the index until a zero length string is returned. This version returns only IPv4 addresses.

# GetIpAddressV6

#### **Description**

This function returns the IPv6 address of the computer running Quick3270.

#### **Syntax**

String = **GetIpAddressV6**(index)

#### **Parameter**

Part	Туре	Description
index	Integer	Required. As a Pc can have several network adapters, it can have several IP addresses. So the GetIpAddressV6 function uses an index, the first address is on index = 0. It's possible to get all the IP addresses by incrementing the index until a zero length string is returned. This version returns only IPv6 addresses.

#### **Remarks**

Added in version 4.37.

# **GetMacroKeystroke**

#### **Description**

This function returns the Virtual Keycode of the keystroke that started the macro. It returns 0 in case the macro was started from the menu.

#### **Syntax**

KeyCode = GetMacroKeystroke()

The list of the Keycodes:

http://msdn.microsoft.com/de-de/library/0z084th3(v=vs.90).aspx

The Upper word contains the modifier (Alt / Ctrl / Shift)

#### Sample:

```
WshShell = CreateObject("WScript.Shell")
Result = GetMacroKeystroke()

KeyStr$ = "Key pressed: "

if Result And &H100 Then
    KeyStr$ = KeyStr$ & "Alt + "
Endif

if Result And &H200 Then
    KeyStr$ = KeyStr$ & "Ctrl + "
Endif

if Result And &H400 Then
    KeyStr$ = KeyStr$ & "Shit + "
Endif

' Remove the modifier value from Result and check the VK_KEY value Result = Result And &HFF

if Result = 0 Then
```

```
KeyStr$ = KeyStr$ & "None"
Endif

if Result = &H70 Then
   KeyStr$ = KeyStr$ & "F1"
Endif

if Result = &H71 Then
   KeyStr$ = KeyStr$ & "F2"
Endif

WshShell.popup(KeyStr$)
```

#### Remarks

Added in version 4.30.

## **GetOIA**

## **Description**

Returns the string representing the content of the OIA line.

#### **Syntax**

String **GetOIA**()

# **GetString**

## **Description**

Returns the text from the specified screen location.

## **Syntax**

**GetString**(row, col, length)

#### **Parameters**

Part	Type	Description
row	Integer	The row where the text string begins.
col	Integer	The column where the text string begins.
length	Integer	The length of the text string

#### Remarks

Null and non-printable characters are replaced by spaces. Added in version 4.12

## **GetText**

## **Description**

Returns characters from the presentation space.

#### **Syntax**

GetText ([Row [, Col [, Len]]])

#### **Parameters**

Part	Туре	Description
Row	Integer	Optional. Row at which to begin the retrieval in the presentation space. Default value is 1.
Col	Integer	Optional. Column at which to begin the retrieval in the presentation space. Default value is 1.
Len	Integer	Optional. Number of characters to retrieve from the presentation space. Default value is the number of characters of the presentation space.

#### Remarks

Null and non-printable characters are replaced by spaces. Added in version 4.37

## **GetTextRect**

## **Description**

Returns characters from a rectangular area in the presentation space. No wrapping takes place in the text retrieval; only the rectangular area is retrieved.

## **Syntax**

**GetTextRect**(StartRow, StartCol, EndRow, EndCol)

#### **Parameters**

Part	Type	Description
StartRow	Integer	Required. Row at which to begin the retrieval in the presentation space.
StartCol	Integer	Required. Column at which to begin the retrieval in the presentation space.
EndRow	Integer	Required. Row at which to end the retrieval in the presentation space
EndCol	Integer	Required. Column at which to end the retrieval in the presentation space

#### Remarks

Null and non-printable characters are replaced by spaces. Added in version 4.31

# **GetTimeoutValue**

## Description

Returns the number of milliseconds used by Wait operations.

#### **Syntax**

**GetTimeoutValue()** 

# **GetVisible**

## **Description**

Returns the visible state of the terminal Window.

#### **Syntax**

GetVisible()

## Returns

The function returns **True** if application Window is Visible.

# **GetWindowTitle**

# Description

Returns the title of the terminal Window.

#### **Syntax**

 ${\bf GetWindowTitle}()$ 

## **MoveTo**

# **Description**

Moves the cursor to the specified screen location.

## **Syntax**

MoveTo(row, col)

#### **Parameters**

Part	Туре	Description
row	Integer	The row location.
col	Integer	The column location.

# **MoveRelative**

# **Description**

Moves the cursor relative from the current screen location.

## **Syntax**

MoveRelative(row, col)

#### **Parameters**

Part	Type	Description
row	Integer	Required. The number of rows to move.
col	Integer	Required. The number of columns to move.

# **OpenPrinter**

## **Description**

Allocates the default Windows printer for the PrintScreen function.

## **Syntax**

# OpenPrinter

## Remark

OpenPrinter must be called before the PrintScreen function.

## **ClosePrinter**

## **Description**

Frees the resources allocated by the OpenPrinter function.

#### **Syntax**

ClosePrinter

## **PrintScreenFontSize**

#### **Description**

PrintScreenFontSize is a global variable used to specify the font size used by the PrintScreen function.

If this variable is not set or set to 0, the default font size is used.

#### **Syntax**

PrintScreenFontSize = 8.

#### **PrintScreen**

# **Description**

Prints the presentation space.

#### **Syntax**

**PrintScreen** [Options]

The options must be separated by a space character.

Valid options are:

BW: Print in Black & White

 $\it HEADER$ : Print the page header (overwrites the default settings)

NOHEADER: Don't print the page header (overwrites the default settings)

FORMFEED: Execute a form feed before the print job

## **Sample**

OpenPrinter
PrintScreen
PrintScreen BW
PrinterFontSize=8
PrintScreen NOHEADER FORMFEED
PrinterFontSize=0
PrintScreen
ClosePrinter

# **PutString**

# Description

Puts text in the specified location on the screen.

# **Syntax**

**PutString** str [,row , col]

#### **Parameters**

Part	Туре	Description
str	String	Required. Text that you want to put on the screen.
row	Integer	Optional. Integer specifying the row in which to put the text.
col	Integer	Optional. Integer specifying the column in which to put the tex.

## Remark

If row and column are omitted, the current caret location is used.

## ReceiveFile

## **Description**

This function allows to receive a file from a host session.

#### Syntax

ReceiveFile PcFile HostFile Options

or

Boolean ReceivedFile(PcFile, HostFile [, Options])

The **ReceiveFile** syntax has these arguments:

Part	Type	Description
PcFile	String	Required. String expression, pc file name.
HostFile	String	Required. String expression, host file name
Options	String	Optional. File transfer options

#### Remarks

# Function added in version 3.98

Following options are supported

- ASCII
- CRLF
- APPEND
- LRECL
- RECFM
- CLEAR/NOCLEAR
- PROGRESS
- QUIET
- VM/CMS/MVS/TSO/CICS

Other supported options are the same as the EHLLAPI Receive File function.

## Search

## **Description**

Search for the first occurrence of text in the Presentation Space.

#### **Syntax**

Boolean **Search(**Token [,row, col])

#### **Parameters**

Part	Туре	Description
Token	String	Required. String to search for.
row	Integer	Optional. Row position to start search in Presentation Space
col	Integer	Optional. Column position to start search in Presentation Space

# **SearchPS**

# **Description**

Search in the presentation space for the provided string.

#### **Syntax**

Boolean **SearchPS(**Token [,address])

## **Parameters**

Part	Туре	Description
Token	String	Required. String to search for.
row	Integer	Optional. Presentation Space location from where to search the token

#### Remark

Similar to the HLLAPI SearchPS

# Sample

```
nAddress = SearchPS(".PAM2")
nRow = ConvertRow(nAddress)
nCol = ConvertCol(nAddress)
Message = ".PAM2 found at Row " + Str$(nRow) + ", Col " + Str$(nCol)
rc = msgbox(Message , vbokonly + vbExclamation, "SearchPS Test")
Exit
```

# **SendDarkKeys**

## **Description**

Puts text in the specified location on the screen. The text is encrypted.

#### **Syntax**

SendDarkKey str

#### **Parameters**

Part	Туре	Description
str	String	Required. String expression that you want to put on the screen.

#### Remarks

The **SendDarkKey** is used only by the macro recorder. All text typed in a "hidden" field will be stored encrypted. The SendDarkKey allows reading this encrypted text and sending the original text back to the emulator. This function is not intended to be used by the user. However you can Copy / Paste a **SendDarkKey** statement generated by the macro recorder into another macro file

# SendFile

## **Description**

This function allows to send a file to a host session.

#### **Syntax**

**SendFile** *PcFile HostFile Options* 

or

Boolean **SendFile**(*PcFile*,*HostFile*,*Options*)

The **SendFile** syntax has these arguments:

Part	Туре	Description
PcFile	String	Required. String expression, pc file name.
HostFile	String	Required. String expression, host file name
Options	String	Optional. File transfer options

#### Remarks

# Function added in version 3.98

Following options are supported

- ASCII
- CRLF
- APPEND
- LRECL
- RECFM
- CLEAR/NOCLEAR
- PROGRESS
- QUIET
- VM/CMS/MVS/TSO/CICS

Other supported options are the same as the EHLLAPI Send File function.

# SendKeys

## **Description**

Send keystrokes at the current cursor location.

## **Syntax**

## SendKeys str

The **SendKeys** syntax has these arguments:

Part	Туре	Description
str	String	Required. String expression that you want to put on the screen.

#### Remarks

Host function keys can be specified with mnemonics.

- Mnemonics must be enclosed in angle.
- Mnemonics are case insensitive

Table of mnemonics representing applicable function keys.

Description	Mnemonics	Emulation
Alternate Cursor	<altcursor></altcursor>	3270 and 5250
Attention	<attn></attn>	3270 and 5250
Back Space	<backspace></backspace>	3270 and 5250
Back Tab	<backtab></backtab>	3270 and 5250
Back Word Tab	<backword></backword>	3270 and 5250
CapsLock	<capslock></capslock>	3270 and 5250
Clear	<clear></clear>	3270 and 5250
Cursor down	<down></down>	3270 and 5250
Cursor left	<left></left>	3270 and 5250
Cursor right	<right></right>	3270 and 5250
Cursor up	<up></up>	3270 and 5250
Cursor left fast	<left2></left2>	3270 and 5250
Cursor right fast	<right2></right2>	3270 and 5250
Cursor Select	<cursorselect></cursorselect>	3270 and 5250
Delete char	<delete></delete>	3270 and 5250
Duplicate	<dup></dup>	3270 and 5250
Edit-Select All	<edit-select all=""></edit-select>	3270 and 5250
Edit-Cut	<edit-cut></edit-cut>	3270 and 5250
Edit-Copy	<edit-copy></edit-copy>	3270 and 5250

Description	Mnemonics	Emulation
Edit-Paste	<edit-paste></edit-paste>	3270 and 5250
Edit-Paste Continue	<edit-paste continue=""></edit-paste>	3270 and 5250
Edit-Copy Append	<edit-copy append=""></edit-copy>	3270 and 5250
Edit-Undo Paste	<edit-undo paste=""></edit-undo>	3270 and 5250
Enter	<enter></enter>	3270 and 5250
Erase EOF	<eraseeof></eraseeof>	3270 and 5250
Erase Input	<eraseinput></eraseinput>	3270 and 5250
Erase Field	<erasefield></erasefield>	3270 and 5250
End of Field	<eof></eof>	3270 and 5250
Field Exit	<field exit=""></field>	5250
Field Minus	<field -=""></field>	5250
Field Plus	<field +=""></field>	5250
Field Mark	<fieldmark></fieldmark>	3270 and 5250
Forward Word Tab	<forwardword></forwardword>	3270 and 5250
Help	<help></help>	5250
Home	<home></home>	3270 and 5250
Host Print	<host print=""></host>	5250
Insert Toggle	<insert></insert>	3270 and 5250
Jump to next session	<jump></jump>	3270 and 5250
Last Field	<last field=""></last>	3270 and 5250
New Line	<newline></newline>	3270 and 5250
Num Lock	<numlock></numlock>	3270 and 5250
Page Down or Roll Up	<page down=""></page>	5250
Page Up or Roll Down	<page up=""></page>	5250
Print Screen - Default	<printscreen></printscreen>	3270 and 5250
Print Screen - File	<printscreen file="" to=""></printscreen>	3270 and 5250
Print Screen - Printer	<printscreen printer="" to=""></printscreen>	3270 and 5250
Reset	<reset></reset>	3270 and 5250
Ruler Toggler	<rule></rule>	3270 and 5250
Scroll Lock	<scrlock></scrlock>	3270 and 5250
System Request	<sysreq></sysreq>	3270 and 5250
Tab	<tab></tab>	3270 and 5250
Pa1	<pa1></pa1>	3270 and 5250
Pa2	<pa2></pa2>	3270 and 5250

Description	Mnemonics	Emulation
Pa3	<pa3></pa3>	3270 and 5250
Pf1 to Pf24	<pf1> - Pf24&gt;</pf1>	3270 and 5250

## Sample

SendKeys "Logon<Enter>"

# **SetText**

# Description

Send the given text to the current field. Unlike SendKeys, mnemonics are not supported.

#### **Syntax**

SetText str

The **SetText** syntax has this argument:

Part	Туре	Description
str	String	Required. String expression to set in field.

#### Remarks

Function added in version 4.30

# **SetTimeoutValue**

# **Description**

Specifies the number of milliseconds used by Wait operations.

## **Syntax**

**SetTimeoutValue** *delay* 

The **SetTimeoutValue** syntax has these arguments:

Part	Туре	Description
delay	Integer	Required. Number of milliseconds.

# **SetVisible**

# **Description**

Sets the visible state of the terminal Window.

#### **Syntax**

**SetVisible** state

The **SetVisible** syntax has these arguments:

Part	Туре	Description
state	Boolean	Required. TRUE if visible, FALSE if invisible.

# **SetWindowTitle**

# Description

Sets the application title bar text.

## **Syntax**

**SetWindowTitle** *title* 

The **SetWindowTitle** syntax has these arguments:

Part	Туре	Description
title	String	Required. String to be displayed in the title bar.

# **Updated**

# **Description**

Returns **True** if the screen was updated since the last call of this function.

## **Syntax**

Updated()

# **WaitForAttrib**

# **Description**

Waits until the specified attribute is displayed at the specified screen location. Returns True if the Attribute Value is found,

#### **Syntax**

Boolean **WaitForAttrib**(row, col, Waitdata, [optional] MaskData, [optional] plane, [optional] TimeOut, [optional] WaitForIr)

#### **Parameters**

Part	Туре	Description
row	Integer	Required. Row position of the attribute.
col	Integer	Required. Column position of the attribute.
Waitdata	Integer	Required. Specifies the value of the attribute to wait for.
MaskData	Integer	Optional. Specifies the value to use as a mask with the attribute. The default value is &HFF.
plane	Integer	Optional. Specifies the plane of the attribute to get. The plane can have the following values:  1 Text Plane 2 Color Plane 3 Field Plane (default) 4 Extended Field Plane The default value is 3.
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is 30 second or the value set by SetTimeoutValue
WaitForIr	Boolean	Optional. If this value is true, after meeting the wait condition the function will wait until the session is ready to accept input.  Default value is False

#### Returns

## **WaitForCursor**

## **Description**

Waits until the cursor is at the specified screen location

#### **Syntax**

**WaitForCursor**(row, col, [optional] TimeOut)

#### **Parameters**

Part	Type	Description
row	Integer	Required. Row position of the cursor.
col	Integer	Required. Column position of the cursor.
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is 30 second or the value set by SetTimeoutValue.

#### Returns

The function returns **True** if the condition is met or **False** if the Timeout value is exceeded.

# **WaitForCursorMove**

#### Description

Waits until the cursor has moved the specified number of rows and columns from its current position.

#### **Syntax**

Boolean **WaitForCursorMove**(row, col, [optional] TimeOut)

#### **Parameters**

Part	Type	Description
row	Integer	Required. The number of rows to move
col	Integer	Required. The number of columns to move
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is 30 second or the value set by SetTimeoutValue.

#### Returns

## WaitForKbdUnlock

## **Description**

The function waits until the OIA of the connection indicates that the connection is able to accept keyboard input.

#### **Syntax**

Boolean WaitForKbdUnlock([optional] TimeOut)

#### **Parameters**

Part	Type	Description
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is 30 second or the value set by SetTimeoutValue.

#### Returns

The function returns **True** if the condition is met or **False** if the Timeout value is exceeded.

# WaitForString

## Description

Waits until the specified text appears on the specified screen location. Search string is case-sensitive.

## **Syntax**

Boolean **WaitForString**(str, row, col, [optional] TimeOut)

## **Parameters**

Part	Туре	Description
str	String	Required. The text string that you want to wait for.
row	Integer	Required. The row where you expect the string to appear.
col	Integer	Required. The column where you expect the string to appear.
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is 30 second or the value set by SetTimeoutValue.

#### Returns

# **WaitHostQuiet**

# **Description**

Waits for the host to not send data for a specified number of milliseconds.

#### **Syntax**

Boolean WaitHostQuiet(settletime)

#### **Parameters**

Part	Туре	Description
settletime	Integer	Required. The amount of time, in milliseconds, that the host should remain "quiet."

## Returns

# Functions supported in IBM<sup>®</sup> Personal Communications<sup>™</sup> compatibility mode

The possibility to run IBM $^{\otimes}$  Personal Communications $^{\text{TM}}$  macros has been added in version  $\frac{3.95}{2}$  of Quick3270.

The IBM® Personal Communications compatibility mode allows Quick3270 to run VBScript or macros generated by the macro recorder.

Advanced VBScripts/macros, developed by users, are supported only if they use functions available in the Quick3270 compatibility mode.

The following conditions must be verified to recognize an IBM® Personal Communications VBScript:

- File extension must be .mac
- VBScript Macros must start with the following header:

[PCOMM SCRIPT HEADER]
LANGUAGE=VBSCRIPT
DESCRIPTION=xxx
[PCOMM SCRIPT SOURCE]
OPTION EXPLICIT

Note: The standard Personal Communications™ COM objects must not be created by the macro: They are available by default (autECLSession, autECLOIA, autECLPS, autECLFieldList...).

# autECLPSObj.autECLFieldList.Count

#### **Description**

Returns the number of fields present in the autECLFieldList collection.

#### **Syntax**

autECLPSObj.autECLFieldList.Count

# autECLPSObj.autECLFieldList.Refresh

## Description

This function is ignored by Quick3270. Quick3270 automatically updates the field list.

#### **Syntax**

autECLPSObj.autECLFieldList.Refresh()

# autECLPSObj.autECLFieldList(FieldIndex).Display

#### Description

Indicates if a given field in the autECLFieldList collection is visible.

#### **Syntax**

autECLPSObj.autECLFieldList(FieldIndex).Display

# autECLPSObj.autECLFieldList(FieldIndex).GetText

#### **Description**

Retrieves the characters of a given field in an autECLFieldList collection.

#### **Syntax**

Str = autECLPSObj.autECLFieldList(FieldIndex).GetText()

# autECLPSObj.autECLFieldList(FieldIndex).Length

#### **Description**

Returns the length of a given field in the autECLFieldList collection.

#### **Syntax**

Len = autECLPSObj.autECLFieldList(FieldIndex).Length

## autECLPSObj.autECLFieldList(FieldIndex).Protected

#### **Description**

Returns True if the field in the autECLFieldList collection is Protected.

#### **Syntax**

Protected = autECLPSObj.autECLFieldList(FieldIndex).Protected

# autECLPSObj.autECLFieldList(FieldIndex).StartCol

#### **Description**

Returns the column position of the first character in a given field in the autECLFieldList collection.

#### **Syntax**

StartRow = autECLPSObj.autECLFieldList(FieldIndex).StartRCol

# autECLPSObj.autECLFieldList(FieldIndex).StartRow

#### **Description**

Returns the row position of the first character in a given field in the autECLFieldList collection.

#### **Syntax**

StartRow = autECLPSObj.autECLFieldList(FieldIndex).StartRow

# autECLSession.SetConnectionByName

#### **Description**

This function is simply ignored by Quick3270. With Quick3270 it's not possible to connect to another session.

#### **Syntax**

autECLSession.SetConnectionByName(name)

#### **Parameter**

Part	Type	Description
name	String	Required. One-character string short name of the connection (A-Z).

# autECLSession.autECLOIA.WaitForAppAvailable

#### **Description**

For compatibility only, this function is simply ignored by Quick3270.

#### **Syntax**

WaitForAppAvailable ([optional] TimeOut)

#### **Parameter**

Part	Туре	Description
TimeOut	Integer	Optional. The maximum length of time in milliseconds to wait, The default is Infinite.

#### Sample

bResult = autECLSession.autECLOIA.WaitForAppAvailable(1000)

# autECLSession.autECLOIA.WaitForInputReady

#### **Description**

The WaitForInputReady method waits the connection is able to accept keyboard input. This function is similar to the Quick3270 WaitForKbdUnlock function

#### **Syntax**

# WaitForInputReady ([optional] TimeOut)

#### **Parameter**

Part	Туре	Description
TimeOut	Integer	Optional. The maximum length of time in milliseconds to wait, The default is Infinite.

#### Sample

bResult = autECLSession.autECLOIA.WaitForInputReady(1000)

# autECLSession.autECLXfer.ReceiveFile

#### **Description**

This function allows receiving a file from a host session.

#### Syntax

#### autECLSession.autECLXfer.ReceiveFile PcFile HostFile Options

The **ReceiveFile** syntax has these arguments:

Part	Туре	Description
PcFile	String	Required. Pc file name.
HostFile	String	Required. Host file name
Options	String	Optional. File transfer options

#### Remarks

# Added in version 3.98

Following options are supported

- ASCII
- CRLF
- APPEND
- LRECL
- RECFM
- CLEAR/NOCLEAR
- PROGRESS
- QUIET
- VM/CMS/MVS/TSO/CICS

Other supported options are the same as the options in EHLLAPI Receive File function.

# autECLSession.autECLXfer.SendFile

### **Description**

This function allows sending a file to a host session.

#### Syntax

#### autECLSession.autECLXfer.SendFile PcFile HostFile Options

The **SendFile** syntax has these arguments:

Part	Туре	Description
PcFile	String	Required. Pc file name.
HostFile	String	Required. Host file name
Options	String	Optional. File transfer options

#### Remarks

# Added in version 3.98

Following options are supported

- ASCII
- CRLF
- APPEND
- LRECL
- RECFM
- CLEAR/NOCLEAR
- PROGRESS
- QUIET
- VM/CMS/MVS/TSO/CICS

Other supported options are the same as the options in EHLLAPI Send File function.

#### autECLSession.autECLPS.CursorPosRow

#### **Description**

Returns current row position of the cursor in the presentation space.

#### **Syntax**

CurPosRow = autECLSession.autECLPS.CursorPosRow

#### autECLSession.autECLPS.CursorPosCol

#### Description

Returns current column position of the cursor in the presentation space.

#### **Syntax**

CurPosCol = autECLSession.autECLPS.CursorPosCol

#### autECLSession.autECLPS.GetText

#### Description

Returns characters from the presentation space.

#### **Syntax**

autECLSession.autECLPS.GetText ([Row [, Col [, Len]]])

#### **Parameters**

Part	Туре	Description	
Row	Integer	Optional. Row at which to begin the retrieval in the presentation space. Default value is 1.	
Col	Integer	Optional. Column at which to begin the retrieval in the presentation space. Default value is 1.	
Len	Integer	Optional. Number of characters to retrieve from the presentation space. Default value is the number of characters of the presentation space.	

#### Remarks

Null and non-printable characters are replaced by spaces.

#### autECLSession.autECLPS.GetTextRect

#### **Description**

Returns characters from a rectangular area in the presentation space. No wrapping takes place in the text retrieval; only the rectangular area is retrieved.

#### **Syntax**

autECLSession.autECLPS.GetTextRect (StartRow, StartCol, EndRow, EndCol)

#### **Parameters**

Part	Туре	Description	
StartRow	Integer	Required. Row at which to begin the retrieval in the presentation space.	
StartCol	Integer	Required. Column at which to begin the retrieval in the presentation space.	
EndRow	Integer	Required. Row at which to end the retrieval in the presentation space	
EndCol	Integer	Required. Column at which to end the retrieval in the presentation space	

#### Remarks

Null and non-printable characters are replaced by spaces. Added in version 4.31

#### autECLSession.autECLPS.SearchText

#### Description

Searches for the first occurrence of text in the presentation space.

The search is case-sensitive. If text is found, the function returns a TRUE value. It returns a FALSE value if no text is found.

#### **Syntax**

 ${\bf autECLSession.autECLPS.SearchText}\ (\textit{text}\ [\textit{, Dir}\ [\textit{, Row}\ [\textit{, Col}]]])$ 

#### **Parameters**

Part	Туре	Description	
Text	String	Required. Text to set in field.	
Dir	Integer	Optional. Direction in which to search. Only value 1, for search forward, is supported now.	
Row	Integer	Optional. Row position at which to start the search in the presentation space.	
Col	Integer	Optional. Column position at which to start the search in the presentation space.	

#### **Remarks**

Added in version 4.37

#### autECLSession.autECLPS.SetText

#### **Description**

Send the given text to the current field. Unlike SendKeys, mnemonics are not supported.

#### **Syntax**

autECLSession.autECLPS.SetText str

#### **Parameter**

Part	Туре	Description
str	String	Required. Text to set in field.

#### Remarks

Added in version 4.30

# autECLSession.autECLPS.SendKeys

#### Description

Send keystrokes at the current cursor location.

#### **Syntax**

 ${\bf autECLS ession. autECLPS. Send Keys}\ str$ 

#### **Parameter**

Part	Туре	Description
str	String	Required. Text that you want to put on the screen.

#### Remarks

Host function keys can be specified with mnemonics.

- Mnemonics must be enclosed in square brackets.
- Mnemonics are case insensitive

Table of mnemonics representing applicable function keys.

Description	Mnemonics IBM Personal Communications™ compatibility mode	Emulation
Alternate Cursor	[altesr]	3270 and 5250
Attention	[attn]	3270 and 5250
Back Space	[backspace]	3270 and 5250
Back Tab	[backtab]	3270 and 5250
Back Word Tab	[wordleft]	3270 and 5250
CapsLock	[capslock]	3270 and 5250
Clear	[clear]	3270 and 5250
Cursor down	[down]	3270 and 5250
Cursor left	[left]	3270 and 5250
Cursor right	[right]	3270 and 5250
Cursor up	[up]	3270 and 5250
Cursor left fast	[fastleft]	3270 and 5250
Cursor right fast	[fastright]	3270 and 5250
Cursor Select	[crsel]	3270 and 5250
Delete char	[delete]	3270 and 5250
Duplicate	[dup]	3270 and 5250
Edit-Select All		3270 and 5250
Edit-Cut		3270 and 5250
Edit-Copy		3270 and 5250
Edit-Paste		3270 and 5250
Edit-Paste Continue		3270 and 5250
Edit-Copy Append		3270 and 5250
Edit-Undo Paste		3270 and 5250
Enter	[enter]	3270 and 5250
Erase EOF	[eraseeof]	3270 and 5250
Erase Input	[erinp]	3270 and 5250
Erase Field		3270 and 5250
End of Field	[eof]	3270 and 5250
Field Exit	[fldext]	5250
Field Minus	[field+]	5250
Field Plus	[field-]	5250
Field Mark	[fieldmark]	3270 and 5250

Description	Mnemonics IBM Personal Communications <sup>TM</sup> compatibility mode	Emulation
Forward Word Tab	[wordright]	3270 and 5250
Help	[help]	5250
Home	[home]	3270 and 5250
Host Print	[print]	5250
Insert Toggle	[insert]	3270 and 5250
Jump to next session	[jump]	3270 and 5250
Last Field		3270 and 5250
New Line	[newline]	3270 and 5250
Num Lock	[numlock]	3270 and 5250
Page Down or Roll Up	[pagedn]	5250
Page Up or Roll Down	[pageup]	5250
Print Screen - Default	[printps]	3270 and 5250
Print Screen - File		3270 and 5250
Print Screen - Printer		3270 and 5250
Reset	[reset]	3270 and 5250
Ruler Toggler		3270 and 5250
Scroll Lock	[scrlock]	3270 and 5250
System Request	[sysreq]	3270 and 5250
Tab	[tab]	3270 and 5250
Pa1	[pa1]	3270 and 5250
Pa2	[pa2]	3270 and 5250
Pa3	[pa3]	3270 and 5250
Pf1 to Pf24	[pf1] - [pf24]	3270 and 5250

# Sample

autECLSession.autECLPS.SendKeys "[enter]"

# autECLSession.autECLPS.Wait

# Description

The Wait method waits for the number of milliseconds specified by the milliseconds parameter.

#### **Syntax**

autECLSession.autECLPS.Wait (Delay)

#### **Parameter**

Part	Туре	Description
Delay	Integer	The number of milliseconds to wait.

# Sample

autECLSession.autECLPS.Wait 4860

# autECLSession.autECLPS.WaitForAttrib

# **Description**

Waits until the specified attribute is displayed at the specified screen location. Returns True if the Attribute value is found,

#### **Syntax**

**autECLSession.autECLPS.WaitForAttrib**(row, col, Waitdata, [optional] MaskData, [optional] plane, [optional] TimeOut, [optional] WaitForIr)

#### **Parameters**

Part	Type	Description
row	Integer	Required. Row position of the attribute.
col	Integer	Required. Column position of the attribute.
Waitdata	Integer	Required. Specifies the value of the attribute to wait for.
MaskData	Integer	Optional. Specifies the value to use as a mask with the attribute. The default value is &HFF.
plane	Integer	Optional. Specifies the plane of the attribute to get. The default value is 3.
TimeOut	Integer	Optional. Specifies the maximum length of time in Milliseconds to wait. Default value is Infinite
WaitForIr	Boolean	Optional. If this value is true, after meeting the wait condition the function will wait until the session is ready to accept input.  Default value is False

#### Returns

The function returns **True** if the condition is met or **False** if the Timeout value is exceeded.

#### Remarks

The plane can have the following values:

- 1 Text Plane
- 2 Color Plane
- 3 Field Plane
- 4 Extended Field Plane

#### Sample

autECLSession.autECLPS.WaitForAttrib 19,28,"00","3c",3,1000

#### autECLSession.autECLPS.WaitForCursor

#### **Description**

Waits until the cursor is at the specified screen location.

#### **Syntax**

autECLSession.autECLPS.WaitForCursor(row, col, [optional TimeOut)

#### **Parameters**

Part	Туре	Description
row	Integer	Required. Row position of the cursor.
col	Integer	Required. Column position of the cursor.
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is Infinite

#### Returns

The function returns **True** if the condition is met or **False** if the Timeout value is exceeded.

# autECLSession.autECLPS.WaitForString

#### Description

Waits until the specified text appears on the specified screen location. Search string is case-sensitive.

# **Syntax**

**autECLSession.autECLPS.WaitForString**(str, row, col, [optional] TimeOut, [optional] WaitForIr, [optional] bCaseSens)

#### **Parameters**

Part	Туре	Description
str	String	Required. The text string that you want to wait for.
row	Integer	Required. The row where you expect the string to appear. Unlike with IBM Personal Communications, this parameter is not optional and value 0 for entire screen searches is not supported
col	Integer	Required. The column where you expect the string to appear Unlike with IBM Personal Communications this parameter is not optional and value 0 for entire screen searches is not supported.
TimeOut	Integer	Optional. Specifies the maximum length of time in milliseconds to wait. The default is 30 second or the value set by SetTimeoutValue.
WaitForIr	Boolean	Optional. If this value is true, after meeting the wait condition the function will wait until the session is ready to accept input.  Default value is False. This parameter is ignored by Quick3270
bCaseSens	Boolean	Optional. If this value is True, the wait condition is verified as case-sensitive.  Default value is False. This parameter is ignored by Quick3270

#### Returns

The function returns **True** if the condition is met or **False** if the Timeout value is exceeded.

# autSystem.Inputnd

# **Description**

Displays a popup input box to the user with a no-display text box so that when the user types in data only asterisks(\*) are displayed.

#### **Syntax**

autSystem.Inputnd()

#### Returns

The characters typed into the input box.

#### **Remarks**

Added in version 4.30

# Functions supported in Attachmate's Extra!™ compatibility mode

The possibility to run Attachmate's Extra!<sup>™</sup> macros has been added in version 3.96 of Quick3270. The Attachmate's Extra!<sup>™</sup> compatibility mode allows Quick3270 to run directly macros recorded by Extra!<sup>™</sup>.

The following conditions must be verified to recognize an Extra!™ macro:

- File extension must be .ebm or .txt
- For .ebm files, the macro must have the standard Extra! macro header. Quick3270 will make some pointer and keyword check to identify an Extra! macro header
- For .txt files, no checks are made. Quick3270 assumes that all .txt files are Attachmate's Extra!™ macros

#### **Compatibility restrictions:**

- Quick3270 can only run macros that uses functions used by the Extra!™ macro recorder.
- System and Sess0 objects are default names created by the Extra! Macro recorder.
   Quick3270 uses the same name (not modifiable) for compatibility.
   The user should not change the default name of the objects or create Extra! Objects with other names: This is not supported by Quick3270.
- SendFile and ReceiveFile statements are supported, however Extra! file transfer schemes are not supported.

#### List of supported methods

- Sess0.Screen.Copy
- Sess0.Screen.CopyAppend
- Sess0.Screen.GetString
- Sess0.Screen.MoveTo
- Sess0.Screen.PutString
- Sess0.Screen.Rows
- Sess0.Screen.SelectAll
- Sess0.Screen.Sendkeys
- Sess0.Screen.Updated
- Sess0.Screen.WaitForCursor
- Sess0.Screen.WaitForCursorMove
- Sess0.Screen.WaitHostQuiet
- Sess0.Screen.WaitForString
- Sess0.Visible
- Sess0.FileTransferHostOS
- Sess0.SendFile
- Sess0.ReceiveFile
- System.TimeoutValue

#### List of ignored lines (the objects are created by default)

- · Dim Sessions As Object
- Dim Sess0 As Object
- Dim System As Object
- Set System = CreateObject("EXTRA.System")
- Set Sessions = System.Sessions
- Set Sess0 = System.ActiveSession
- Sess0.FileTransferScheme

# Functions supported in Micro Focus Chameleon/Rumba compatibility mode

#### **EMReadScreen**

#### **Description**

Returns data from the host screen.

#### Syntax

EMReadScreen BufferStr, Len, Row, Col

#### **Parameters**

Part	Туре	Description
BufferStr	String	Required. Variable to contain host screen data.
Len	Integer	Required. Number of characters to retrieve
Row	Integer	Required. Row at which to begin the retrieval in the presentation space.
Col	Integer	Required. Column at which to begin the retrieval in the presentation space.

# Remarks

Null and non-printable characters are replaced by spaces.

# **EMSendKey**

#### **Description**

Send keystrokes at the current cursor location.

#### **Syntax**

EMSendKey KeyStr

#### **Parameters**

Part	Туре	Description
KeyStr	String	Required. Text that you want to put on the screen.

#### Remarks

Null and non-printable characters are replaced by spaces.

# **EMWaitCursor**

#### Description

Suspends script execution until the host screen is ready for keyboard input and the cursor is at the specified location.

#### **Syntax**

**EMWaitCursor** *Timeout, Row, Col* [,ExtraWait]

#### **Parameters**

Part	Туре	Description
Timeout	Integer	Required. Timeout value in seconds.
Row	Integer	Required. Specifies the cursor row position in the presentation space
Col	Integer	Required. Specifies the cursor column position in the presentation space
ExtraWait	Integer	Optional. The number of milliseconds to validate for a keyboard unlocked status

#### Remarks

Null and non-printable characters are replaced by spaces.

# **FileWrite**

# Description

Writes data to a sequential file.

#### **Syntax**

FilezWrite FileName, Data

#### **Parameters**

Part	Туре	Description
FileName	String	Required. File path and name.
Data	String	Required. String to write to file.

# **FileAppend**

# Description

Writes data to a sequential file.

# **Syntax**

FilezAppend Data

#### **Parameters**

Part	Туре	Description
Data	String	Required. String to write to file.

# **Macro Samples**

# Select an Excel file using GetOpenFileName

```
;Create objects
WshShell = CreateObject("WScript.Shell")

strFileName = GetOpenFileName("Select File", "", "Excel Files *.xls|*.xls")
WshShell.popup(strFileName)
WshShell = Nothing
End
```

# Creating a Reference to an Excel Object

```
;Create objects
appExcel = CreateObject("Excel.Application")
appExcel.Visible = True
Set iLine = 1
appExcel.activesheet.cells(2,1).value = GetString(iLine+6, 6, 8)
...
appExcel = Nothing
End
```

# File I/O

# Connecting to a data source and executing SQL Queries

```
connectSQL = CreateObject("ADODB.Connection")
recordsetSQL = CreateObject("ADODB.RecordSet")
recordsetSQL.ActiveConnection = connectSQL
recordsetSQL.Source = "Select * from myRange1"
recordsetSQL.Open
Adrs_L = recordsetSQL.Fields.Item("A1").value
...
End
```

# Find Values from screen and use the WScript object

```
;Create objects and init variables
WshShell = CreateObject("WScript.Shell")
Screen=""
sFind=0
FIN=""
;Find Values from screen
Screen = GetString(1,1,1920)
sFind = inStr(Screen, "LSFYFND")
FIN=MID(Screen, (sFind + 9),5)
WshShell.popup(sFind)
if sFind > 0 then
      sFind = inStr(Screen,"IVGFINAL")
      FIN = MID(Screen, (sFind + 9), 5)
endif
;Show Popup Value
WshShell.popup(FIN)
; Destroy Open Objects and init Variables
WshShell = Nothing
Screen=""
FIN=""
sFind=0
End
```

# Simple logon script

```
HostSettleTime = 3000 ; milliseconds
Result = WaitForCursor(19, 64)
SendKeys "logon<Enter>"
Result = WaitForCursor(5, 40)
SetWindowTitle "Macro" + " Quick3270"
sPassword = PasswordBox("Enter Password", "Logon")
SendKeys "USERNAME"
b = MoveTo(6,40)
SendKeys sPassword
SendKeys "<Enter>"
End
```

# Using LDAP to retrieve the user name and password and start logon script

```
Set QuickExit = False
Set jRoot = GetObject("LDAP://RootDSE")
DomainPath = jRoot.Get("DefaultNamingContext")
Set Domain = GetObject("LDAP://" + DomainPath)
DomainPath = "LDAP://s1-mes.intra.company.com/DC=intra,DC=company,DC=com"
Set con = CreateObject("ADODB.Connection")
Set Com = CreateObject("ADODB.Command")
con.Provider = "ADsDSOObject"
con.Open "Active Directory Provider"
Set Com.ActiveConnection = con
Com.CommandText = "select HostUser, HostPassword from '" + DomainPath + "' WHERE
objectClass='user' AND sAMAccountName='" + sAMAccountName + "'
Set rs = Com.Execute
if Not rs.EOF then
   HostUserName = rs.Fields("HostUserName")
   HostPassword = rs.Fields("HostPassword")
   if Len(HostUserName = 0) Then
     rc = msgbox("User name unknown" , vbokonly + vbExclamation, "Error")
      ; We have the user name and password. Start the logon process
      Result = WaitForString("Welcome", 1, 38)
      if Result = True then
         Result = MoveTo(29, 47)
         SendKeys HostUserName. Value
         Result = MoveTo(30, 47)
         SendKeys HostPassword. Value
         SendKeys "<Enter>"
         Result = WaitForKbdUnlock()
         r = GetString(28, 2, 8)
         if r = "rejected" then
            rc = msgbox("User already logged in" , vbokonly + vbExclamation,
"Error")
            Set QuickExit = True
      endif
   endif
endif
con.Close
rs = Nothing
Com = Nothing
con = Nothing
Domain = Nothing
jRoot = Nothing
```

# IBM Personal Communications VBScript sample supported by Quick3270

```
[PCOMM SCRIPT HEADER]
LANGUAGE=VBSCRIPT
DESCRIPTION=VBScript
[PCOMM SCRIPT SOURCE]
OPTION EXPLICIT
autECLSession.SetConnectionByName(ThisSessionName)
REM This line calls the macro subroutine
subSub1
sub subSub1 ()
   autECLSession.autECLOIA.WaitForAppAvailable
   autECLSession.autECLOIA.WaitForInputReady
   autECLSession.autECLPS.SendKeys "a"
   autECLSession.autECLOIA.WaitForInputReady
   autECLSession.autECLPS.SendKeys "[enter]"
   autECLSession.autECLPS.WaitForAttrib 24,5,"00","3c",3,10000
   autECLSession.autECLPS.Wait 2937
   autECLSession.autECLOIA.WaitForAppAvailable
   autECLSession.autECLOIA.WaitForInputReady
   autECLSession.autECLPS.SendKeys "[pf1]"
   autECLSession.autECLPS.WaitForAttrib 24,80,"08","3c",3,10000
   autECLSession.autECLPS.WaitForCursor 1,1,10000
   autECLSession.autECLOIA.WaitForAppAvailable
   autECLSession.autECLOIA.WaitForInputReady
   autECLSession.autECLPS.SendKeys "/rcl"
   autECLSession.autECLOIA.WaitForInputReady
   autECLSession.autECLPS.SendKeys "[enter]"
   autECLSession.autECLPS.WaitForAttrib 24,5,"00","3c",3,10000
   autECLSession.autECLPS.Wait 4860
   autECLSession.autECLOIA.WaitForAppAvailable
   autECLSession.autECLOIA.WaitForInputReady
   autECLSession.autECLPS.SendKeys "[pf3]"
end sub
```

# IBM Personal Communications Macro sample supported by Quick3270

```
Description =Test Macro
run /min notepad.exe
[wait app]
[wait inp inh]
"a
[enter]
[wait inp inh]
wait 10 sec until FieldAttribute 0000 at (24,5)
wait 10 sec until cursor at (24,6)
[wait app]
[wait inp inh]
"sos
[enter]
[wait inp inh]
wait 10 sec until FieldAttribute 0008 at (24,80)
wait 10 sec until cursor at (1,1)
[wait app]
[wait inp inh]
"logon
[enter]b
```

# Attachmate's Extra! macro sample supported by Quick3270

```
' This macro was created by the Macro Recorder.
' Session Document: "DISPLAY LOCALHOST.EDP"
 Date: Thursday, November 08, 2009 15:19:52
' User: Denis
' Global variable declarations
Global g_HostSettleTime%
Sub Main()
' Get the main system object
      Dim Sessions As Object
      Dim System As Object
      Set System = CreateObject("EXTRA.System") ' Gets the system object
      If (System is Nothing) Then
             Msgbox "Could not create the EXTRA System object."
      End If
      Set Sessions = System.Sessions
      If (Sessions is Nothing) Then
             Msgbox "Could not create the Sessions collection object."
      End If
' Set the default wait timeout value
      g HostSettleTime = 3000
                                       ' milliseconds
      OldSystemTimeout& = System.TimeoutValue
      If (g_HostSettleTime > OldSystemTimeout) Then
             System.TimeoutValue = g_HostSettleTime
' Get the necessary Session Object
      Dim SessO As Object
      Set Sess0 = System.ActiveSession
      If (Sess0 is Nothing) Then
             Msgbox "Could not create the Session object. Stopping macro
playback."
             STOP
      If Not SessO. Visible Then SessO. Visible = TRUE
      Sess0.Screen.WaitHostQuiet(g_HostSettleTime)
' This section of code contains the recorded events
      Sess0.Screen.Sendkeys("F<Enter>")
      Sess0.Screen.WaitHostQuiet(g_HostSettleTime)
      Sess0.Screen.Sendkeys("<Pf3>")
      Sess0.Screen.WaitHostQuiet(g_HostSettleTime)
      System.TimeoutValue = OldSystemTimeout
End Sub
```