



**DETAILED SPECIFICATIONS SHEET**

**EASYXLS** is a server-side spreadsheet component enabling to easily read and write native Excel files without having Microsoft Excel installed on server or client machine. It works without Microsoft Excel or OLE Automation. It can be integrated with both desktop or web based applications and can be use both in Intranet or Internet.

**EASYXLS** is a tool for generating columnar or chart reports, but also can be used for generating simple Excel spreadsheets. By writing simple code, your report is exported to a Microsoft Excel document. Additional, an Excel file can be read and the values are available for your application.

## Requirements



Microsoft .NET installed on machine.

Can be used by any .NET application, any environment that supports COM objects and any Java application like:

- › Windows applications: Windows Forms, Console Applications, Windows Services
- › Web pages: ASP.NET, PHP, Classic ASP, JSP
- › COM technology: VBScript, VB6, C++
- › Cross-platform applications: Java, ColdFusion, Python
- › Supports Open XML and BIFF12 formats used by MS Excel 2007-2024, BIFF8 format used by MS Excel 97-2003
- › Source code: C#, Java

## ? Why EASYXLS



- › Server controlled Excel component
- › Microsoft Excel is not required on the server
- › Works without Microsoft Excel or OLE Automation
- › Easy to use
- › Fully documented
- › API
- › Demos
- › Customer support
- › Source code available
- › It's fast

## Why not OLE Automation

“Microsoft does not currently recommend, and does not support, Automation of Microsoft Office applications from any unattended, non-interactive client application or component (including ASP, DCOM, and NT Services), because Office may exhibit unstable behavior and/or deadlock when run in this environment.

If you are building a solution that runs in a server-side context, you should attempt wherever possible to use components that have been made safe for unattended execution, or find alternatives that allow at least a part of the code to run client-side. If you choose to use an Office application from a server-side solution, you will find that it lacks many of the necessary capabilities to run successfully, and you will be taking risks with the stability of your overall solution.”

*More: <https://support.microsoft.com/en-us/help/257757/considerations-for-server-side-automation-of-office>*



## Cell values

- › Strings
- › Numbers
- › Dates
- › Booleans
- › Formulas
- › Errors

## Formulas

- › All functions supported by Excel
- › Arithmetic, logical and unary operators
- › Formulas with numbers, dates and strings
- › Formulas with cell references
- › Formulas with cell ranges
- › Formulas with names
- › Formulas with arrays
- › Formulas in A1 or R1C1 reference style
- › Formulas with references to external documents

## Formula computation engine

- › Formula computation engine is available

## Worksheets

**Multiple worksheets per file are available.**

Properties:

- › Title
- › Worksheet can be selected
- › Worksheet can be protected
- › Worksheet can be hidden
- › Password protection
- › Zoom
- › Tab color

## Chart sheets

**Chart sheets are available.**

Properties:

- › Title
- › Chart sheet can be selected
- › Chart sheet can be protected
- › Chart sheet can be hidden
- › Password protection
- › Zoom
- › Tab color

## Format cells

- › Format a cell, a row, a column or a specified range
- › Number format – all text, number and date formats supported by Excel are available
- › Alignment – vertical & horizontal alignment, wrap & shrink text
- › Indent
- › Text rotation
- › Font – font name, font size, color, bold, italic, underline, strikethrough, superscript & subscript
- › Border – style and color
- › Background & foreground
- › Pattern
- › Gradient fill
- › Protection – locked & hidden
- › Merged cells
- › Rich text format
- › Themes

## Auto-formats

- › Default Excel auto-formats
- › Custom auto-formats

## Conditional formatting

- › Conditional formatting for a range
- › Font – color, bold, italic, underline, strikethrough
- › Border – style and color
- › Background & foreground
- › Themes

## Hyperlinks

- › URL's
- › Files
- › Cell references
- › Named ranges

## Comments

**Can be attached to a cell.**

Properties:

- › Font name, font size, bold, italic, underline
- › Foreground
- › Location
- › Rich text format

## Images

**JPEG, GIF, PNG, WMF, EMF, BMP, TIFF images can be added to a sheet.**

Properties:

- › Image file path
- › Location
- › Extract image bytes from an Excel document

*Note: XLS file format supports only JPEG images.*

## Names

**Named cells or ranges can be added for a workbook.**

Properties:

- › Title
- › Formula
- › Hidden

## Data validation

- › Data entered in a cell can be restricted to certain values
- › Input message and error alert can be set
- › Drop-down controls to select the allowable values for a cell are available

## Header and footer

**Header and footer can be attached to a worksheet.**

Properties:

- › Position – left, center and right side
- › Font – font name, font size, underline, strikethrough, superscript, subscript
- › Predefined texts: page number, total number of pages, date and time, file name

## Page setup

- › Set page orientation (portrait, landscape), paper size
- › Set scaling factor, fit to pages width/height
- › Set paper margins
- › Set print area
- › Set rows to be repeated at top, columns to be repeated at left
- › Print order
- › Print gridlines, print black and white, print draft quality, print row and column headings, print comments

## Page breaks

- › Horizontal and vertical page breaks
- › Allows displaying the file in page break preview mode

## Row and column dimension

- › Row height and column width can be set for the grid

## Group and outline levels

- › Group the rows and the columns. Multiple and embedded outline levels are available.

## Split and freeze panes

- › Split window views
- › Freeze rows and columns

## Filter and Auto-Filter

- › Auto-Filter
- › Advanced Filter

## Chart objects

- › All chart types and chart formats supported by Excel are available.  
*See more details*

## Pivot tables

Summarization of worksheet data in pivot tables:

- › Pivot table options: Layout&Format, Totals&Filters, Display, Printing, Data
- › Fields and its settings
- › Row labels
- › Column labels
- › Report filter
- › Value fields and its settings



## Pivot charts

Pivot charts can be created based on a pivot table. All the features presented for charts are available also for pivot charts.

## Encryption

- › Password protection for the workbook
- › Password to open and password to modify MS Excel documents

## File properties

- › Document summary properties
- › Custom properties

## Read as SQL data set

- › Read the sheet values of an XLSX document (MS Excel 2007-2021)
- › Read the active sheet values of an XLSX document (MS Excel 2007-2021)
- › Read the sheet values of an XLSB document (MS Excel 2007-2021)
- › Read the active sheet values of an XLSB document (MS Excel 2007-2021)
- › Read the sheet values of an XLS document (MS Excel 97-2003)
- › Read the active sheet values of an XLS document (MS Excel 97-2003)
- › Read the values from a TXT file
- › Read the values from a CSV file
- › Read the values from an XML file

## Save as

- › XLSX document (MS Excel 2007-2023)
- › XLSB document (MS Excel 2007-2023)
- › XLSM document (MS Excel 2007-2023)
- › XLS document (MS Excel 97-2003)
- › TXT file
- › CVS file
- › XML file
- › HTML file

## Load



- › XLSX document (MS Excel 2007-2023)
- › XLSB document (MS Excel 2007-2023)
- › XLSM document (MS Excel 2007-2023)
- › XLS document (MS Excel 97-2003)
- › TXT file
- › CSV file
- › XML file
- › HTML file

## Import/Export



- › SQL data sets
- › XML files
- › TXT files
- › CSV files
- › HTML files
- › Custom lists

## VB and macros



- › Preserve the macros when load/edit/write XLSM, XLSB and XLS files



## Chart details

### Chart types



- › Clustered column
- › Stacked column
- › 100% stacked column
- › 3D clustered column
- › 3D stacked column
- › 3D 100% stacked column
- › 3D column
- › Line
- › Stacked line
- › 100% stacked line
- › Line with markers
- › Stacked line with markers
- › 100% stacked line with markers
- › Clustered bar
- › Stacked bar
- › 100% stacked bar
- › 3D clustered bar
- › 3D stacked bar
- › 3D 100% stacked bar
- › Pie
- › Pie 3D
- › Pie of pie
- › Exploded pie
- › Exploded pie 3D
- › Bar of pie

- Scatter
  - Scatter smoothed lines
  - Scatter smoothed lines with markers
  - Scatter lines
  - Scatter lines with markers
  
  - Area
  - Stacked area
  - 100% stacked area
  - 3D area
  - 3D stacked area
  - 3D 100% stacked area
  
  - Doughnut
  - Exploded doughnut
  
  - Radar
  - Radar with markers
  - Filled radar
  
  - 3D surface
  - Wireframe 3D surface
  - Contour
  - Wireframe contour
  
  - Bubbles
  - Bubbles with 3D effect
  
  - Stock high-low-close
  - Stock open-high-low-close
  - Stock volume-high-low-close
  - Stock volume-open-high-low-close
- Column with a cylindrical shape
  - Stacked column with a cylindrical shape
  - 100% stacked column with a cylindrical shape
  - Bar with a cylindrical shape
  - Stacked bar with a cylindrical shape
  - 100% stacked bar with a cylindrical shape
  - 3D column with a cylindrical shape
  
  - Column with a conical shape
  - Stacked column with a conical shape
  - 100% stacked column with a conical shape
  - Bar with a conical shape
  - Stacked bar with a conical shape
  - 100% stacked bar with a conical shape
  - 3D column with a conical shape
  
  - Column with a pyramid shape
  - Stacked column with a pyramid shape
  - 100% stacked column with a pyramid shape
  - Bar with a pyramid shape
  - Stacked bar with a pyramid shape
  - 100% stacked bar with a pyramid shape
  - 3D column with a pyramid shape

## Chart area

- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Border settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing

## Plot area

- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Border settings: style, width and color
- › Shadow settings
- › 3-D Format settings

## Series

- › Series name
- › Series values
- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Border settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Data labels
- › Markers

## Category X axis labels

- › As text
- › As range formula

## Legend

- › Placement
- › Key direction

- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Border settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Show/hide

## Category X axis

- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Line settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Alignment settings
- › Major tick mark type
- › Minor tick mark type
- › Tick mark labels
- › Scale options
- › Number format
- › Rotation
- › Show/hide

## Values Y axis

- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Line settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Alignment settings
- › Major tick mark type
- › Minor tick mark type
- › Tick mark labels

- › Scale options
- › Number format
- › Rotation
- › Show/hide

## X axis major gridlines

- › Line settings: style, width and color
- › Shadow settings
- › Show/hide

## Y axis major gridlines

- › Line settings: style, width and color
- › Shadow settings
- › Show/hide

## X axis minor gridlines

- › Line settings: style, width and color
- › Shadow settings
- › Show/hide

## Y axis minor gridlines

- › Line settings: style, width and color
- › Shadow settings
- › Show/hide

## Chart title

- › Text
- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Line settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Alignment settings
- › Show/hide

## Category X axis label

- › Text
- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Line settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Alignment settings
- › Show/hide

## Value Y axis label

- › Text
- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Line settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Alignment settings
- › Show/hide

## Data table

- › Fill settings: solid fill, gradient fill, picture or texture fill, transparency
- › Line settings: style, width and color
- › Shadow settings
- › 3-D Format settings
- › Font settings: font name, font size, bold, italic, color, underline, strikethrough, superscript & subscript, offset, character spacing
- › Show legend keys
- › Show horizontal lines
- › Show vertical lines
- › Show outline lines
- › Show/hide



# Supported Excel Features



Feature	Professional	Writer	Reader	Express Writer
Cell values	✓	✓	✓	✓
Multiple worksheets	✓	✓	✓	—
Formulas	✓	✓	✓	✓
Formula computation engine	✓	✓	✓	—
Format cells	✓	✓	✓	—
Auto-formats	✓	✓	✓	✓
Conditional formatting	✓	✓	✓	—
Hyperlinks	✓	✓	✓	—
Comments	✓	✓	✓	—
Images	✓	✓	✓	—
Names	✓	✓	✓	—
Data validation	✓	✓	✓	—
Header & footer	✓	✓	✓	—
Page Setup options	✓	✓	✓	—
Page breaks	✓	✓	✓	—
Row and column dimension	✓	✓	✓	—
Group and outline levels	✓	✓	✓	—
Split and freeze panes	✓	✓	✓	—
Filter and Auto-Filter	✓	✓	✓	—
VB and macros	✓	—	—	—
Charts	✓	✓	✓	—
Pivot tables	✓	✓	✓	—
Pivot charts	✓	✓	✓	—
Encryption and password protection	✓	✓	✓	✓
File properties	✓	✓	✓	—
Save XLSX	✓	✓	—	✓
Save XLSB	✓	✓	—	✓
Save XLSM	✓	—	—	—
Save XLS	✓	✓	—	✓



Feature	Professional	Writer	Reader	Express Writer
Save TXT	✓	✓	—	—
Save CSV	✓	✓	—	—
Save HTML	✓	✓	—	—
Save XML	✓	✓	—	—
Load XLSX	✓	—	✓	—
Load XLSB	✓	—	✓	—
Load XLSM	✓	—	✓	—
Load XLS	✓	—	✓	—
Load TXT	✓	—	✓	—
Load CSV	✓	—	✓	—
Load HTML	✓	—	✓	—
Load XML	✓	—	✓	—



## Financial functions

- ACCRINT
- ACCRINTM
- AMORDEGRC
- AMORLINC
- COUPDAYBS
- COUPDAYS
- COUPDAYSNC
- COUPNCD
- COUPNUM
- COUPPCD
- CUMIPMT
- CUMPRINC
- DB
- DDB
- DISC
- DOLLARDE
- DOLLARFR
- DURATION
- EFFECT
- FV
- FVSCCHEDULE
- INTRATE
- IPMT
- IRR
- ISPMT
- MDURATION
- MIRR
- NOMINAL
- NPER
- NPV
- ODDFPRICE
- ODDFYIELD
- ODDLPRICE
- ODDLyield
- PDURATION
- PMT
- PPMT
- PRICE
- PRICEDISC
- PRICEMAT
- PV
- RATE
- RECEIVED
- RRI
- SLN
- SYD
- TBILLEQ
- TBILLPRICE
- TBILLYIELD
- VDB
- XIRR
- XNPV
- YIELD
- YIELDDISC
- YIELDMAT

## Logical functions

- AND
- FALSE
- IF
- IFERROR
- IFNA
- IFS
- NOT
- OR
- SWITCH
- TRUE
- XOR

## Lookup and reference functions

- › ADDRESS
- › AREAS
- › CHOOSE
- › COLUMN
- › COLUMNS
- › GETPIVOTDATA
- › HLOOKUP
- › HYPERLINK
- › INDEX
- › INDIRECT
- › LOOKUP
- › MATCH
- › OFFSET
- › ROW
- › ROWS
- › RTD
- › TRANSPOSE
- › VLOOKUP
- › XLOOKUP

## Database and list management functions

- › DAVERAGE
- › DCOUNT
- › DCOUNTA
- › DGET
- › DMAX
- › DMIN
- › DPRODUCT
- › DSTDEV
- › DSTDEVP
- › DSUM
- › DVAR
- › DVARP

## Information functions

- › CELL
- › ERROR.TYPE
- › INFO
- › ISBLANK
- › ISERR
- › ISERROR
- › ISEVEN
- › ISLOGICAL
- › ISNA
- › ISNONTEXT
- › ISNUMBER
- › ISODD
- › ISREF
- › ISTEXT
- › N
- › NA
- › TYPE

## Math and trigonometry functions

- ABS
- ACOS
- ACOSH
- ASIN
- ASINH
- ATAN
- ATAN2
- ATANH
- CEILING
- COMBIN
- COS
- COSH
- DEGREES
- EVEN
- EXP
- FACT
- FACTDOUBLE
- FLOOR
- GCD
- INT
- LCM
- LN
- LOG
- LOG10
- MDETERM
- MINVERSE
- MMULT
- MOD
- MROUND
- MULTINOMIAL
- ODD
- PI
- POWER
- PRODUCT
- QUOTIENT
- RADIANS
- RAND
- RANDBETWEEN
- ROMAN
- ROUND
- ROUNDDOWN
- ROUNDUP
- SERIESSUM
- SIGN
- SIN
- SINH
- SQRT
- SQRTPI
- SUBTOTAL
- SUM
- SUMIF
- SUMIFS
- SUMPRODUCT
- SUMSQ
- SUMX2MY2
- SUMX2PY2
- SUMXMY2
- TAN
- TANH
- TRUNC

## Statistical functions

- AVEDEV
- AVERAGE
- AVERAGEA
- AVERAGEIF
- AVERAGEIFS
- BETADIST
- BETAINV
- BINOMDIST
- CHIDIST
- CHINV
- CHITEST
- CONFIDENCE
- CORREL
- COUNT
- COUNTA
- COUNTBLANK
- COUNTIF
- COUNTIFS
- COVAR
- CRITBINOM
- DEVSQ
- EXPONDIS
- FDIST
- FINV
- FISHER
- FISHERINV
- FORECAST
- FREQUENCY
- FTEST
- GAMMADIST
- GAMMAINV
- GAMMALN
- GEOMEAN
- GROWTH
- HARMEAN
- HYPGEOMDIST
- INTERCEPT
- KURT
- LARGE
- LINEST
- LOGEST
- LOGINV
- LOGNORMDIST
- MAX
- MAXA
- MEDIAN
- MIN
- MINA
- MODE
- NEGBINOMDIST
- NORMDIST
- NORMINV
- NORMSDIST
- NORMSINV
- PEARSON
- PERCENTILE
- PERCENTRANK
- PERMUT
- POISSON
- PROB
- QUARTILE
- RANK
- RSQ
- SKEW
- SLOPE
- SMALL
- STANDARDIZE
- STDEV
- STDEVA
- STDEVP

- › STDEVPA
- › STEYX
- › TDIST
- › TINV
- › TREND
- › TRIMMEAN
- › TTEST

- › VAR
- › VARA
- › VARP
- › VARPA
- › WEIBULL
- › ZTEST

## Text functions

- › BAHTTEXT
- › CHAR
- › CLEAN
- › CODE
- › CONCATENATE
- › DOLLAR
- › EXACT
- › FIND
- › FIXED
- › LEFT
- › LEN
- › LOWER

- › MID
- › PROPER
- › REPLACE
- › REPT
- › RIGHT
- › SEARCH
- › SUBSTITUTE
- › T
- › TEXT
- › TRIM
- › UPPER
- › VALUE

## Date and time functions

- › DATE
- › DATEDIF
- › DATEVALUE
- › DAY
- › DAYS360
- › EDATE
- › EOMONTH
- › HOUR
- › MINUTE
- › MONTH
- › NETWORKDAYS

- › NOW
- › SECOND
- › TIME
- › TIMEVALUE
- › TODAY
- › WEEKDAY
- › WEEKNUM
- › WORKDAY
- › YEAR
- › YEARFRAC

## Engineering functions

- BESSELI
- BESSELJ
- BESSELK
- BESSELY
- BIN2DEC
- BIN2HEX
- BIN2OCT
- COMPLEX
- CONVERT
- DEC2BIN
- DEC2HEX
- DEC2OCT
- DELTA
- ERF
- ERFC
- GESTEP
- HEX2BIN
- HEX2DEC
- HEX2OCT
- IMABS
- IMAGINARY
- IMARGUMENT
- IMCONJUGATE
- IMCOS
- IMDIV
- IMEXP
- IMLN
- IMLOG10
- IMLOG2
- IMPOWER
- IMPRODUCT
- IMREAL
- IMSIN
- IMSQRT
- IMSUB
- IMSUM
- OCT2BIN
- OCT2DEC
- OCT2HEX

## Add-in and automation functions

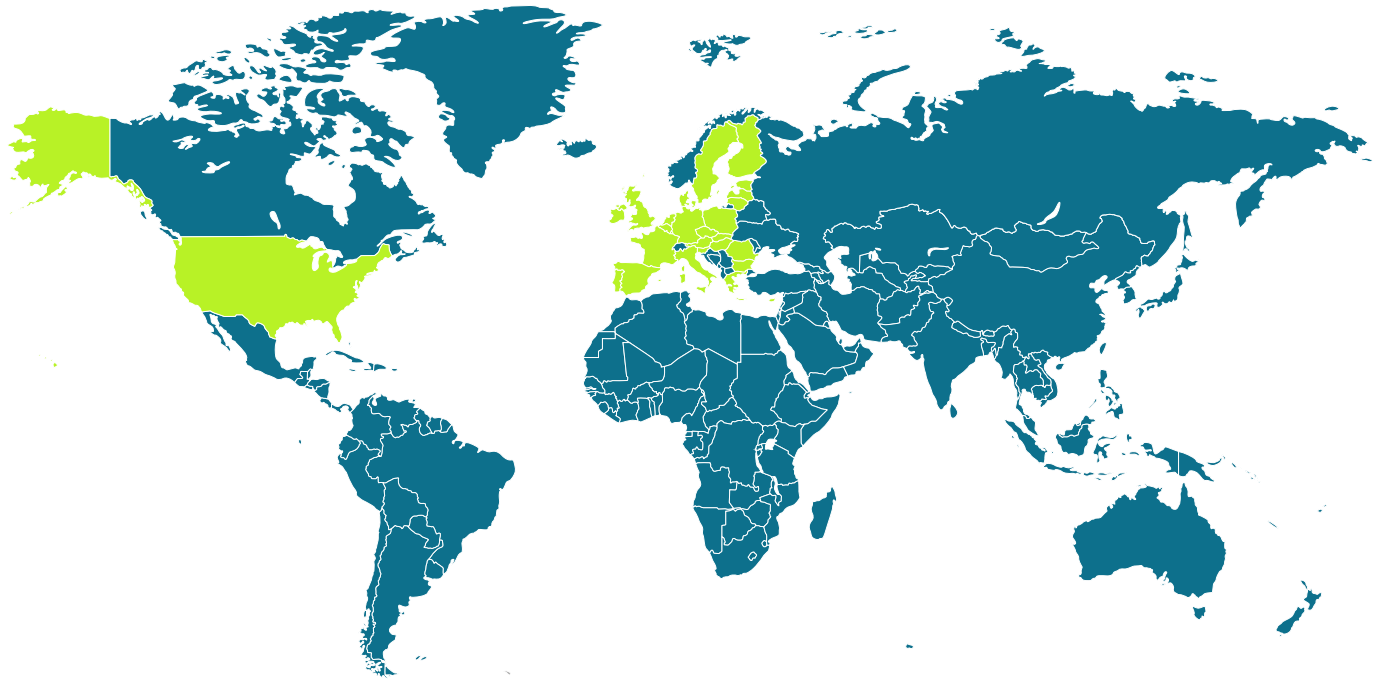
- CALL
- GETPIVOTDATA

## Function

## Implementation of

CONCAT_RANGE	~ operator
UNION_RANGE	, operator
INTERSECT_RANGE	operator
SUM_OPERATOR	+ operator
SUBTRACT_OPERATOR	- operator
MINUS	- unary operator
DIVIDE	/ operator
MULTIPLY	* operator
PERCENT_OPERATOR	% unary operator
CONCATENATE	& operator
POWER	^ operator
EQUAL_OPERATOR	= operator
NOTEQUAL_OPERATOR	<> operator
LESS_OPERATOR	< operator
LESSEQL_OPERATOR	<= operator
GREATER_OPERATOR	> operator
GREATEREQUAL	>= operator





## US

### Sales

[us.sales@easyxls.com](mailto:us.sales@easyxls.com)

### Support

[us.tech@easyxls.com](mailto:us.tech@easyxls.com)

### Main

Phone: (973)-457-5583

Email: [us.contact@easyxls.com](mailto:us.contact@easyxls.com)

### Office Address

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Green Village, NJ 07935

## EU

### Sales

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### Support

[eu.tech@easyxls.com](mailto:eu.tech@easyxls.com)

### Main

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Email: [eu.contact@easyxls.com](mailto:eu.contact@easyxls.com)

### Office Address

35 Caprioarei Street  
Brasov, Romania