# Morningstar Excel API - Quick Reference Guide

**Today** : Monday 22nd September 2014

## MSDATE (Morningstar Date)

| | |
|---|---|
| **1. Date** Id | latest (yesterday)<br>lmktclose (last market close)<br>lsyend (last semi year end)<br>l_end for week, month, quarter, year |

=MSDATE("latest") ► 21/09/2014
=MSDATE("lmktclose") ► 19/09/2014

## Dash Codes (Relative Dates)

| | |
|---|---|
| **+ / -** | 0, 1, 2, 3, … |
| D : week day<br>W : week end<br>M : month end<br>C : month (same date) | Q : quarter end<br>S : Dec/Jun<br>X : year end<br>Y : year (same month end)<br>G : year (same date) |

=MSDATE("lmktclose-0M") ► 31/08/2014
=MSDATE("lwend-1G") ► 20/09/2013
=MSDATE("lsyend+5D") ► 07/07/2014

## MSMEMBER (Morningstar Lists / Searches)

| | |
|---|---|
| **1. Source** Type | L : List / S : Search |
| **2. Source** Name | List or Search name |
| **3. Constituents** Id | Ticker, ISIN, SecId, etc. |
| **4. CorR** | C : next cell in same column (vertical)<br>R : next cell in same row (horizontal) |

=MSMEMBER("L","Swiss Equity Funds","ISIN")
=MSMEMBER("S","5 Star","SecId","CorR=R")

## MSDP (Morningstar Data Point)

| | |
|---|---|
| **1. Security** Id | Ticker, ISIN, SecId, etc. |
| **2. Data Point** Id | Full (e.g. Morningstar Category) or short name (Mstar_Cat), see dictionary (link at bottom of page) |

=MSDP("GOOG","Sector") ► Technology
=MSDP("US38259P7069","Base_CUR") ► US Dollar

## MSHOLDING (Morningstar Holding Data)

| | |
|---|---|
| **1. Portfolio** Id | Ticker, ISIN, SecId, etc. (fund level) |
| **2. Holdings** Id | Ticker, ISIN, SecId (holding level) |
| **3. Start** Date (SD)<br>**4. End** Date (ED) | a) DD/MM/YYYY (check with MSDATE)<br>b) Dash Codes<br>c) SD/ED +- 0,1,2,3,… D,W,M,… |
| **5. Optional** param. | First value by default |
| Holding Type/HT | All / Stocks / Bonds / Cash / Other |
| Freq | A (all available portfolios) / D / M / Q / Y |
| Name | True / False : hide holdings names |
| Shares | False / True : number of shares instead of weights |
| Market Value/MV | False / True : MV instead of weights |

=MSHOLDING("PBFBX","ISIN")
=MSHOLDING("F0GBR04AQH","Ticker","ED-1Y","lyend", "HT=Stocks,Freq=Y,MV=True")

## MSTS (Morningstar Time Series)

| | |
|---|---|
| **1. Security** Id | Ticker, ISIN, SecId, etc. |
| **2. Data Point** Id | Full or short name |
| **3. Start** Date (SD)<br>**4. End** Date (ED) | a) DD/MM/YYYY<br>b) Dash Codes<br>c) SD/ED +- 0,1,2,3,… D,W,M,… |
| **5. Optional** param. | First value by default |
| rType | Market return (default for stocks, indexes, ETFs)<br>Post-Tax (def. for UK and Italy funds)<br>Total (def. for other funds)<br>Gross / Net / Price / Income / Etc. |
| Freq | 1 : day to day (default for returns) / D : daily / W / M / Q / S / Y |
| Days | C : calendar / W : week / T : trading |
| Fill | C : carry last available data / P : previous day's / B : blank / 0 : zero |
| Ann | False : cumulative day to day return / True : annualized |
| Curr | Three letter ISO Code, e.g. EUR, USD |
| Dates | False / True : show dates |
| Ascending | True : oldest first / False : most recent |
| CorR | C : next cell in same col / R : row |

=MSTS("MALOX","NAV_daily","lsyend","SD+1M")
=MSTS("NYS:MMM","return","31/12/2010","latest-0X", "Dates=TRUE,Freq=Q,Ascending=False")

## How To Link Cells

| | | |
|---|---|---|
| **Direct** link (for Ids, Dates, etc.) | **A2** : FCNTX / **B1** : Mgr_Name | =MSDP(**A2**,**B1**) ► William Danoff |
| **Special** link (for Optional parameters) | **C1** : Stocks | =MSHOLDING(**A2**,"ISIN","HT="&**C1**&",Shares=TRUE") |

**Excel API Dictionary, FAQ, etc.:** excelapi.morningstar.com
**For any questions on Excel API:** morningstardirect@morningstar.com

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