

# COUPDAYS

Updated: 31 Mar 2016

Use **COUPDAYS** to calculate the number of days in the coupon period where the settlement occurs. A settlement date occurs in the coupon period where the settlement date is greater than or equal to start date of the coupon period and less than the end date of the coupon period (as the end date of one period is the start date of the next period).

## Syntax

```
Public Shared Function COUPDAYS(  
    ByVal Settlement As Date,  
    ByVal Maturity As Date,  
    ByVal Frequency As Double,  
    ByVal Basis As String,)
```

## Arguments

### Settlement

the settlement date occurring within the coupon period of the security. *Settlement* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

### Maturity

the maturity date of the instrument. *Maturity* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

### Frequency

the number of coupon payments per year. For annual payments, *Frequency* = 1; for semi-annual, *Frequency* = 2; for quarterly, *Frequency* = 4; for monthly, *Frequency* = 12. *Frequency* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

### Basis

the type of day count to use.

Basis	Day count basis
0, "BOND"	US (NASD) 30/360
1, "ACTUAL"	Actual/Actual
2, "A360"	Actual/360
3, "A365"	Actual/365
4, "30E/360 (ISDA)", "30E/360", "ISDA", "30E/360 ISDA", "EBOND"	European 30/360
5, "30/360", "30/360 ISDA", "GERMAN"	30/360 ISDA
6, "NL/ACT"	No Leap Year/ACT
7, "NL/365"	No Leap Year /365
8, "NL/360"	No Leap Year /360
9, "A/364"	Actual/364
10, "BOND NON-EOM"	US (NASD) 30/360 non-end-of-month

11, "ACTUAL NON-EOM"	Actual/Actual non-end-of-month
12, "A360 NON-EOM"	Actual/360 non-end-of-month
13, "A365 NON-EOM"	Actual/365 non-end-of-month
14, "30E/360 NON-EOM", "30E/360 ICMA NON-EOM", "EBOND NON-EOM"	European 30/360 non-end-of-month
15, "30/360 NON-EOM", "30/360 ISDA NON-EOM", "GERMAN NON-EOM"	30/360 ISDA non-end-of-month
16, "NL/ACT NON-EOM"	No Leap Year/ACT non-end-of-month
17, "NL/365 NON-EOM"	No Leap Year/365 non-end-of-month
18, "NL/360 NON-EOM"	No Leap Year/360 non-end-of-month
19, "A/365 NON-EOM"	Actual/364 non-end-of-month

*Basis* is an expression that returns a **String**, or of a type that can be implicitly converted to **String**.

## Return Type

Integer

## Remarks

- If *Frequency* is NULL then *Frequency* = 2.
- If *Basis* is NULL then *Basis* = 0.
- If *Frequency* is any number other than 1, 2, 4 or 12 an error is returned.
- If *Basis* invalid (see above list) an error is returned.
- If *Maturity* is the last day of the month and *Basis* < 10, then the previous coupon date occurs on the last day of the month.
- If *Maturity* is the last day of the month and not the 31<sup>st</sup> of the month and *Basis* > 9 the previous coupon date is occurs on the same day of the month as the maturity date.
- If *Settlement* = *Maturity* then the number of days is calculated from the last coupon date before maturity to the maturity date.
- For *Basis* 0, 2, 4, 5, 8, 10, 12, 14, 15, and 18 the coupon number of days is  $360 / \textit{Frequency}$ .
- For *Basis* 3, 7, 13, and 17 the coupon number of days is  $365 / \textit{Frequency}$ .
- For *Basis* 1 and 11 the coupon number of days is the actual number of days between the previous coupon date and the next coupon date.
- For *Basis* 9 and 19 the coupon number of days is  $364 / \textit{Frequency}$ .
- For *Basis* 6 and 16 the coupon number of days is the actual number of days between the previous coupon date and the next coupon date, excluding Feb 29.

## See Also

- COUPDAYBS - Number of days from previous coupon to settlement date
- COUPDAYSNC - Number of days from settlement to next coupon date
- COUPNCD - Next coupon date
- COUPNUM - Number of coupons from settlement to maturity

- COUPPCD - Previous coupon date