

Date and Time	Mathematical
AGE	RANDOM
BUSINESS_DAY_FORWARD	ABS
BUSINESS_DAY_BACK	SIGN
CURRENT_DATE	FLOOR
CURRENT_TIMESTAMP	CEILING
CURRENT_DAY_OF_YEAR	EXP
CURRENT_DAY_OF_MONTH	NEG
CURRENT_DAY_OF_WEEK	SQRT
CURRENT_MONTH	ROUND
CURRENT_YEAR	MIN2
CURRENT_WEEK	MAX2
CURRENT_HOUR	MOD
CURRENT_MINUTE	
DATE	
DATE_ADD	Text
DATE_PART	AS_NUMBER
DAY_DIFFERENCE	AS_STRING
DAY_DIFFERENCE2	LENGTH
DAY_OF_WEEK	MATCHES
DAY_NUMBER_IN_WEEK	INDEX_OF
DAY_OF_MONTH	WORD_NUMBER
DAY_OF_YEAR	TO_LOWER_CASE
DAYS	TO_UPPER_CASE
FIRST_DAY_OF_MONTH	CHARS_FROM_LEFT
FIRST_DAY_OF_NEXT_MONTH	CHARS_FROM_RIGHT
FIRST_DAY_OF_PREV_MONTH	WORDS_FROM_LEFT
FULL_YEARS	WORDS_FROM_RIGHT
HOUR	REPLACE
HOURS	
LAST_DAY_OF_MONTH	
LAST_DAY_OF_NEXT_MONTH	
LAST_DAY_OF_PREV_MONTH	
MINUTE	Miscellaneous
MINUTE	OLD_VALUE
MINUTES	TYPE
MONTH	GROUP_MEMBER
SECONDS	LIST
TIME_ADD	LIST_TABLE
TIMESTAMP	LIST_LINE
WEEK	SUB_DOCUMENT
	PAGE_NUMBER
	NUMBER_OF_PAGES
Financial	
PV	ELEMENT_COUNT
FV	ELEMENT_COUNTER
NPER	NESTING_LEVEL
PMT	

AwareIM Functions Reference

Version 2.2

Date and Time

AGE	IF Age (Account.Customer.DateOfBirth) > 70 Then ...	Full year difference
BUSINESS_DAY_FORWARD	IF CURRENT_DATE=BUSINESS_DAY_FORWARD (Account.OpeningDate) Then ...	
BUSINESS_DAY_BACK	IF CURRENT_DATE=BUSINESS_DAY_BACK (Account.OpeningDate) Then ...	
CURRENT_DATE	Account.OpeningDate = CURRENT_DATE	
CURRENT_TIMESTAMP	Transaction.Time = CURRENT_TIMESTAMP	
CURRENT_DAY_OF_YEAR	IF CURRENT_DAY_OF_YEAR = 8 Then ...	
CURRENT_DAY_OF_MONTH	IF CURRENT_DAY_OF_MONTH = 8 Then ...	
CURRENT_DAY_OF_WEEK	IF CURRENT_DAY_OF_WEEK = 'Saturday' Then ...	Returns Monday, Tuesday, ... , Sunday !
CURRENT_MONTH	IF CURRENT_MONTH = 1 Then ...	
CURRENT_YEAR	IF CURRENT_YEAR = 2004 Then ...	
CURRENT_WEEK	IF CURRENT_WEEK = 1 Then SEND GreetingEmail TO Customer	
CURRENT_HOUR	IF CURRENT_HOUR = 12 Then DISPLAY MESSAGE 'Midday!'	
CURRENT_MINUTE	IF CURRENT_MINUTE = 45 Then ...	
DATE	IF DATE (DAY_OF_MONTH (Account.OpeningDate), 12, 2004) = 28/12/2004 Then ...	
DATE_ADD	IF DATE_ADD (Account.OpeningDate, 4) = 07/04/2004 Then ...	Add days to timestamp
DATE_PART	IF DATE_PART (Account.OpeningDateTime) = 07/04/2004 Then ...	
DAY_DIFFERENCE	IF DAY_DIFFERENCE (Account.OpeningDate, Account.ClosingDate) = 3 Then ...	
DAY_DIFFERENCE2	IF DAY_DIFFERENCE2 (CURRENT_DATE, Client.DateOfBirth) = 2 Then SEND GreetingEmail TO Client	ignores years
DAY_OF_WEEK	IF DAY_OF_WEEK (Account.OpeningDate)='Wednesday' Then ...	Returns Monday, Tuesday, ... , Sunday !
DAY_NUMBER_IN_WEEK	IF DAY_NUMBER_IN_WEEK (Account.OpeningDate)=1 Then ...	1=Sunday, 2=Monday
DAY_OF_MONTH	IF DAY_OF_MONTH (Account.OpeningDate)=25 Then ...	
DAY_OF_YEAR	IF DAY_OF_YEAR (Account.OpeningDate)=250 Then ...	
DAYS	IF DAYS (Task.Duration) = 5 Then ...	Number of days in duration
FIRST_DAY_OF_MONTH	IF FIRST_DAY_OF_MONTH (Account.OpeningDate)=01/10/2004 Then ...	
FIRST_DAY_OF_NEXT_MONTH	IF FIRST_DAY_OF_NEXT_MONTH (Account.OpeningDate)=01/11/2004 Then ...	
FIRST_DAY_OF_PREV_MONTH	IF FIRST_DAY_OF_PREV_MONTH (Account.OpeningDate)=01/09/2004 Then ...	
FULL_YEARS	IF FULL_YEARS (Account.OpeningDate, Account.ClosingDate) = 5 Then ...	Full years between dates
HOUR	IF HOUR (Account.OpeningDate)=12 Then ...	
HOURS	IF HOURS (Task.Duration) = 5 Then ...	Hours in duration
LAST_DAY_OF_MONTH	IF LAST_DAY_OF_MONTH (Account.OpeningDate)=31/10/2004 Then ...	
LAST_DAY_OF_NEXT_MONTH	IF LAST_DAY_OF_NEXT_MONTH (Account.OpeningDate)=30/11/2004 Then ...	
LAST_DAY_OF_PREV_MONTH	IF LAST_DAY_OF_PREV_MONTH (Account.OpeningDate)=30/09/2004 Then ...	
MINUTE	IF MINUTE (Account.OpeningDate)=45 Then ...	
MINUTES	IF MINUTES (Task.Duration) = 5 Then ...	Minutes in duration
MONTH	IF MONTH (Account.OpeningDate) = 12 Then ...	
SECONDS	IF SECONDS (Task.Duration) = 5 Then ...	
TIME_ADD	IF TIME_ADD (Account.OpeningTime), 4) = 07/04/2004 12:00 Then ...	Add hours to timestamp
TIMESTAMP	IF TIMESTAMP (DAY_OF_MONTH (Account.OpeningDate), 4, 2004, 11, 0) = 07/04/2004 11:00 Then ...	
WEEK	IF WEEK (Account.OpeningDate) =52 Then ...	

Mathematical

RANDOM	Account.Key = RANDOM	
ABS	IF ABS (Transaction.Amount) = 10 Then ...	Absolute value
SIGN	IF SIGN (Transaction.Amount) = -1 Then ...	Sign of provided number (0,1,-1)
FLOOR	IF FLOOR (Transaction.Amount) = 10 Then ...	5,67-->5, -5,57-->-6
CEILING	IF CEILING (Transaction.Amount) = 10 Then ...	5,67-->6, -5,57-->5
EXP	IF EXP (Transaction.Amount) = 10 Then ...	
NEG	IF NEG (Transaction.Amount) = -10 Then ...	negate
SQRT	IF SQRT (Transaction.Amount) = 10 Then ...	square root
ROUND	IF ROUND (Transaction.Amount, 1) = 10.3 Then ...	
MIN2	IF MIN2 (Transaction.Amount, Account.Balance) = 100 Then ...	Minimum of 2 numbers
MAX2	IF MAX2 (Transaction.Amount, Account.Balance) = 100 Then ...	Maximum of 2 numbers
MOD	IF MOD (Account.Balance, Transaction.Amount) = 10 Then ...	Remainder of division

Financial

PV	PV (0.08, 12 * 20, 500, 0, 0)	Present value
FV	FV (0.08, 12 * 20, 500, 0, 0)	Future value
NPER	NPER (0.08, 500, 0, 0, 0)	Number of payment periods
PMT	PMT (0.08, 12 * 20, 500, 0, 0)	Payment per period

Text

AS_NUMBER	IF AS_NUMBER (Account.Text) = 5 Then ...	
AS_STRING	IF AS_STRING (Account.Number) = '5' Then ...	
LENGTH	IF LENGTH (Account.Name) = 5 Then ...	
MATCHES	IF MATCHES (Customer.PhoneNo, '[0-9]') = 'No' Then ...	String matches regular expression
INDEX_OF	IF INDEX_OF ('Smith', Account.Name) = 0 Then ...	Index of first within second string
WORD_NUMBER	IF WORD_NUMBER (Account.Name) > 2 Then ...	
TO_LOWER_CASE	IF TO_LOWER_CASE (Account.Name) = 'john smith' Then ...	
TO_UPPER_CASE	IF TO_UPPER_CASE (Account.Name) = 'JOHN SMITH' Then ...	
CHARS_FROM_LEFT	IF CHARS_FROM_LEFT (Account.Name, 2) = 'Jo' Then ...	
CHARS_FROM_RIGHT	IF CHARS_FROM_RIGHT (Account.Name, 3) = 'ith' Then ...	
WORDS_FROM_LEFT	IF WORDS_FROM_LEFT (Account.Name, 1) = 'John' Then ...	
WORDS_FROM_RIGHT	IF WORDS_FROM_RIGHT (Account.Name, 1) = 'Smith' Then ...	
REPLACE	IF REPLACE (Account.Name, 'ohn?', 'ack?') = 'Jack Smith' Then ...	

Miscellaneous

OLD_VALUE	IF OLD_VALUE (Account.Balance) = 100 Then ...	Previous value
TYPE	TYPE (Account) = 'PersonalSavingAccount' Then ...	Type of Business Object in Business Object Group
GROUP_MEMBER	IF GROUP_MEMBER ('SavingAccount', 'Account') = TRUE Then ...	True IF part of specifiEd Business Object Group
LIST	<<LIST (Client.Children, '', 'FirstName', 'LastName', 'Age,#)>>	List of specifiEd attributes (only reports !)
LIST_TABLE	<<LIST_TABLE (Client.Children, 'FirstName', 'LastName', 'Age,#)>>	Table of specifiEd attributes (MS-Word only !)
LIST_LINE	<<LIST_LINE (Client.Children, '', 'FirstName', 'LastName', 'Age,#)>>	List line of specifiEd attributes (only reports !)
SUB_DOCUMENT	<<SUB_DOCUMENT (Client.Children, 'ClientList')>>	Subreport of specifiEd type
PAGE_NUMBER	<<PAGE_NUMBER>>	
NUMBER_OF_PAGES	<<NUMBER_OF_PAGES>>	
ELEMENT_COUNT	<<ELEMENT_COUNT>>	
ELEMENT_COUNTER	<<ELEMENT_COUNTER>>	
NESTING_LEVEL		Nesting level of Subreports