

Osprey Approach: Creating Calculated Fields

This help guide was last updated on Jan 24th, 2023

The latest version is always online at https://support.ospreyapproach.com/?p=31342



When designing your own reports, you may wish to merge together one or more fields, or create a value based on other values in your report data set. This guide will show you how. For example, given the client title, forename and surname as separate fields you may wish to make a "Client Name" field which shows just the company name if a company, but the Title, Forename and Surname in one field if an individual.

Create a new Calculated Field

To create a new calculated field, in the report designer, right click on the Field List in the top right hand corner, then click Add Calculated Field.

Foreground Col Foreground Col Formatting Rule (Collection) Formatting Rule (Collection) Pedding 0, 0, 0, 0 Page Color White					ospi	- , , ,	pproo	eport Desig	jiici					- 0
Point Latter in the second se	_							~		Wind		6	6	N
A		Alignment		La	yout				Zoom	Vie				
★ Repert Spürer <td></td> <td>х</td> <td>Field List</td> <td></td>												х	Field List	
Show Footer Style Sheet's Participation of the state of t												×	Glent Matt G Act Pe G Act Pe	er Details eriod No solign Date ar No Description In Use theme Description In Use theme Description In Use III Addressee III Area III Addressee III Area III House III Postal Town IIII Postal Town IIIII IIIII IIIII IIIII IIIIIIIIIIII

Give the new field a name which can be used to identify it - this must be different to any of the other field names which already exist in your view, and cannot contain any spaces.

Report1* - Osprey Approach Report Designer

		incporti osprey rippiouente				\diamond
ab - <u>A</u> -	i	*=0=****				-1
		* * * * 표 표 및 및 및	Zoom Out Zoom Zoom In	Windows		
	Alignment	Layout	Zoom	View		
		,			× Field List	μ×
					Image: Second	* * * * * * * * * * * * * * * * * * *
wn					4 X	
Show Footer						
Show Footer						
					Expression	
					Specifies the expression of the calculate	ed field.
					100% 🕞	+

Click into the Expression box, and click the ellipsis button (...)

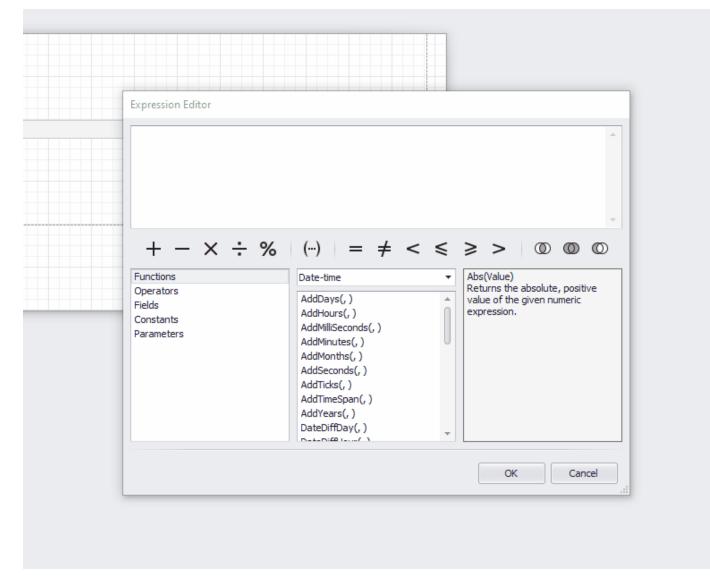
Report1* - Osprey Approach Report Designer

calculatedField Calculated Field CalculatedField Calculated Field Image: CalculatedField Ca		inclosed a specific product			
Neyment Landt Juin Nor					602
A contract of a contract			•		
Control and a second seco	 Alignment	Layout	200m	View	
Contracting C					
					Clerit Matter Details Cack Period No Act Position Date Act Act Priod No Act Act Act Act Act Act Act Act Act
					100% (-) (+)

The Expression Editor will now open for you to create your new field.

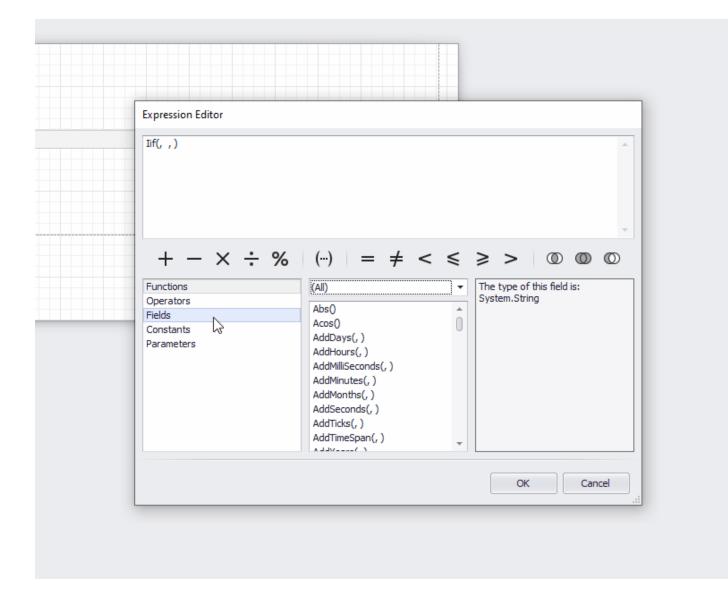
Using the Expression Editor - Functions pane

Functions can be used to manipulate data in the same way as Excel formulae. Select the Functions option in the leftmost panel, you can then break the functions down by type, and then double click to add the function to the expression editor box. Selecting a function with a single click will display a description of its' usage in the rightmost panel.



Using the Expression Editor - Fields pane

Selecting the Fields pane allows you to select any of the fields available in your data set. Selecting a field with a single click will display its' data type in the rightmost panel.



Using the Expression Editor - Constants pane

Constants available are True, False and ? - these can be used for comparing True/False/Empty field values.

Expression Ed	itor												
													*
+ -	×	÷	%	()	=	ŧ	<	≤	≥	>	\bigcirc	\odot	\mathbb{O}
Functions Operators Fields Constants Parameters				True False 2		_		-	Repl valu		the Boole	ean Fal	se
										OK		Can	cel

Using the Expression Editor - Parameters pane

This section allows you to work with any parameters you may have added.

Field List 🗖 📮 🗙	Expression Editor
Field List Image: A transmission of the second	Expression Editor $+ - \times \div \% (-) = \neq < \leq \geq > ()$
Report Explorer Explorer	OK Cancel

Building a Calculated Field Expression - Example 1 -Client Full Name, Client and Matter No

Osprey stores your client name as separate fields Client Title, Client Forename, Client Initials, Client Surname. If your report data set contains these fields, but you want to join them together, you can use a calculated field to do this.

In the Expression Editor for this calculated field, you can follow the steps below to link the name fields together.

Expression Editor			
			*
$+ - \times \div \%$	$(\cdots) = \neq$	< <	≥ > © © ©
Functions Operators Fields Constants Parameters	(All) Abs() Acos() AddDays(,) AddHours(,) AddMilliSeconds(,) AddMinutes(,) AddMonths(,) AddSeconds(,) AddTicks(,) AddTicks(,)	• •	Represents the Boolean False value.

This translates as:

IF the client forename field is blank, THEN just display the client surname, ELSE display the client title plus a space plus the client forename plus a space plus the client surname.

This ensures that where you have company clients, no spaces are inserted prior to the surname/company name in your report. To add any other text (even spaces!) into a calculated field we need to surround it with the single quote - ' - character.

Another example below shows a simple calculated field to join the client and matter numbers together with a / in between (Client No field PLUS a / plus Matter No field):

Expression Editor	
[Client No] +'/' + [Matter No]	
+ - × ÷ % Functions Operators Fields Constants Parameters	 (···) = ≠ < ≤ ≥ >
	OK Cancel

The results of these custom fields are shown below:





Client / Matter No	Client's Full Name / Company Name
A00001/1	Admin Company clients
BO0001/1	Bosworth Industries
BR0001/1	Miss Lily Broom
BR0001/2	Miss Lily Broom Individual clients
BR0002/1	Mr Connor Broom
BR0002/2	Mr Connor Broom
CL0001/1	CLIENT SUSPENSE
CL0001/2	CLIENT SUSPENSE

Building a Calculated Field Expression - Example 2 - 50% of an amount, 1 month in future from date

In this example we have created a very simple report of bills outstanding including the bill number, bill date and amount remaining. We want to work out what 50% of the remainder is, and the due date which we will set as 14 days from the date of the bill.

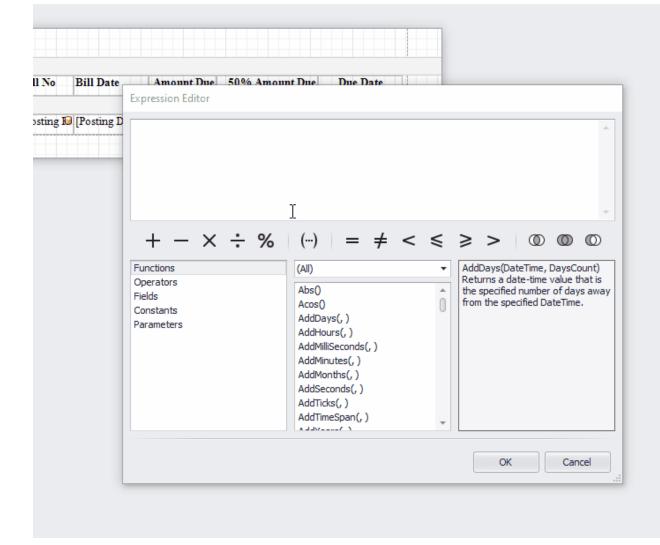
Client/Matter	Client Name	Bill No	Bill Date	Amount Due	50% Amount Due	Due Date
BR0002/2	Mr Connor Broom	28	26/11/2020	£1800.00		
CL0001/1	CLIENT SUSPENSE	16	16/11/2020	£900.00		
L00001/1	Mr Stanley Lynch	29	30/11/2020	£1420.51		
N00001/1	Mr Hiro Nakamura	3	01/11/2020	£840.00		
N00001/1	Mr Hiro Nakamura	43	30/11/2020	£600.00		
N00001/1	Mr Hiro Nakamura	6	01/12/2020	£108.00		
N00001/1	Mr Hiro Nakamura	7	01/12/2020	£288.00		
S00002/1	Mr Edward Sylar	49	01/01/2021	£1000.00		
TH0001/1	Mrs Delilah Thompson	21	16/11/2020	£855.00		
TH0001/1	Mrs Delilah Thompson	22	16/11/2020	£160.50		

We will need to add 2 new calculated fields, Percent50Due and DueDate.

For the 50% due field, we can simply multiply the balance remaining field by 0.5 - although there are many other mathematical formulae you could apply here to get the same result!

	50% Amount Due Due Date
Posting Date [Balanc]	
Expression Editor	
	▲
I	
-	$(\cdots) = \neq < \leq \geq > \textcircled{0} \textcircled{0} \textcircled{0}$
$+ - \times \div \%$ Functions	ab Balance
$+ - \times \div \%$	ab Balance ab Branch Description The type of this field is: System.String
+ - × ÷ % Functions Operators Fields Constants	ab Balance ab Branch Description ab CDS Scheme Desc
+ - × ÷ % Functions Operators Fields	ab Balance A The type of this field is: ab Branch Description System.String
+ - × ÷ % Functions Operators Fields Constants	ab Balance ab Branch Description ab CDS Scheme Desc ab CDS Scheme Id ab Client Area ab Client County
+ - × ÷ % Functions Operators Fields Constants	ab Balance ab Branch Description ab CDS Scheme Desc ab CDS Scheme Id ab Client Area ab Client County ab Client Email Address
+ - × ÷ % Functions Operators Fields Constants	ab Balance ab Branch Description ab CDS Scheme Desc ab CDS Scheme Id ab Client Area ab Client County ab Client Forename
+ - × ÷ % Functions Operators Fields Constants	ab Balance ab Branch Description ab CDS Scheme Desc ab CDS Scheme Id ab Client Area ab Client County ab Client Email Address

For the Due Date, we'll use the AddDays() function to work out 14 days from the bill date:



The result:

▼ 📃 PageHeader [one band per page]		
Client/Matter Client Name	Bill No Bill Date Amount Due 50% Amount Due 1	Due Date
[ClientAndMatter] [ClientFullName]	[Posting Date]	DueDate] 🤤

Client/Matter	Client Name	Bill No	Bill Date	Amount Due	50% Amount Due	Due Date
BR0002/2	Mr Connor Broom	28	26/11/2020	£1800.00	£900.00	10/12/2020
CL0001/1	CLIENT SUSPENSE	16	16/11/2020	£900.00	£450.00	30/11/2020
L00001/1	Mr Stanley Lynch	29	30/11/2020	£1420.51	£710.26	14/12/2020
N00001/1	Mr Hiro Nakamura	3	01/11/2020	£840.00	£420.00	15/11/2020
N00001/1	Mr Hiro Nakamura	43	30/11/2020	£600.00	£300.00	14/12/2020
N00001/1	Mr Hiro Nakamura	6	01/12/2020	£108.00	£54.00	15/12/2020
N00001/1	Mr Hiro Nakamura	7	01/12/2020	£288.00	£144.00	15/12/2020
S00002/1	Mr Edward Sylar	49	01/01/2021	£1000.00	£500.00	15/01/2021
TH0001/1	Mrs Delilah Thompson	21	16/11/2020	£855.00	£427.50	30/11/2020
TH0001/1	Mrs Delilah Thompson	22	16/11/2020	£160.50	£80.25	30/11/2020

More Report Writer Links