

OrgPublisher Formulas



Table of Contents

Formulas	. 3
Formula Processing	.3
Performance Considerations	. 3
Inserting a Formula	.3
Formula Syntax	.5
Concatenation Description and Sample Script	.5
Calculation with Fixed Variable Description and Sample Script	.5
If, Then, Else Result Description and Sample Script	.6
Calculations - Difference Description and Sample Script	.7

Formulas

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Formula fields allow you to define and populate a new custom field based on values provided in other fields or by using other criteria. Examples of possible formula fields can be years of employment, days until an appraisal is due, percentage of sales quota met, or new salary based on a percentage increase. Effective with OrgPublisher Premier 11.8, and later, formulas can be used to display the manager name of employees who are part of a multiple reporting structure.

OrgPublisher supports formula fields by using the Microsoft Windows Script Host to process VBScript. Formula fields contain a VBScript function that references values in custom fields.

Formula Processing

Formulas are processed when you open a chart or close the Custom Field Properties dialog. Limitations include:

- Formulas are only processed by the OrgPublisher application or Web Administration •
- Formulas are processed when opening a chart or closing the Custom Field Properties • dialog; they do not refresh in response to a data edit or structure change
- Formulas are not processed in planning charts
- Formulas are not reprocessed once a chart is published (via PluginX or EChart) •

Performance Considerations

A fast computer can process about 5000 formula calculations per second. This means that a chart with 100K records takes about 20 seconds to process for each formula field displayed in the chart

Inserting a Formula

- 1. Open the Custom Field Properties dialog.
- 2. **Insert** a new custom field at the end of the list.
- 3. Type the Field label you want to use, the data Type, such as numeric or text, and then click Formula.

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	Field label	Туре	Calc Field	Population	Assigned To	Sample	Sec
T	Hired	Date			All Position Types	20020824	20
ļ	Days since hired	Numeric			All Position Types	40585	21



4. Type the formula directly into the dialog or copy and paste it from a text file.

formula		×
Enter a formula for this field. To remove a formula, delete existing text		VBScript Help
return = "No Hire Date" If IsNumeric("\$Hired\$"; 1, 4) sMonth= Mid("\$Hired\$", 5, 2) SDay= Mid("\$Hired\$", 5, 2) SDate = CDate(sDate) nDateSpan = Year(Now) - Year(dtDate) return = FormatNumber(nDateSpan, 0) End If		A
		Ŧ
Results		
Formula code executed: return = "No Hire Date" If Iskumeric(") then sYear= Mid(", 1, 4) sMonthe Mid(", 5, 2) sDay= Mid(", 7, 2)		
sDate = sDay + "/" + sMonth + "/" + sYear dtDate = CDate(sDate) nDateSpan = Year(Now) - Year(dtDate)		
return = FormatNumber(nDateSpan, 0) End If		
Darilli		
Test formula on all records		
	OK	Cancel



5. Click Test formula on all records. If the formula works as expected, a "no errors" message appears.

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♪	No errors occurred during processing of the formula.
	OK

Figure 3.

If errors are found, modify the formula until it works successfully.



Formula Syntax

Formulas are VBScript with text substitution tags. Fields are referenced by putting a dollar sign (\$) before and after the field name. For example, \$Salary\$ references a custom field named Salary.

Sample scripts in the following section are in red.

Concatenation Description and Sample Script.

The highlighted formula field shows the concatenation, or merging, of the data from two fields into one field. A comma (text string) separates the data from the two fields.

Example: You want to show the Gender and Ethnicity fields as one field.

Gender, Ethnicity = F, Caucasian

Return = "\$Gender\$" + "," + "\$Ethnicity\$"





Calculation with Fixed Variable Description and Sample Script

Any numeric field can be used to calculate a new result with a fixed variable.

Example: The salary field for all employees is increased by 5%. The displayed field shows the new salary with the increase.

CurrentSalary * 1.05 to show 5% increase

Sample Script: Salary + 5% Increase

Return = 0 ' Set to Zero if Salary field is non numeric or blank

If IsNumeric ("\$Salary\$") then

Return = "\$Salary\$" * 1.05

End If

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If, Then, Else Result Description and Sample Script

The example analyzes a field of data. A 0 (zero) is returned if the field contains no value. If the field contains a value, then a calculation is performed and a result returned.

Example: If there is no hire date, then return 0 for days since hired. If there is a hire date (Else), then calculate the number of days since the person was hired.

Sample Script: Days since hired

```
If "$Hired$" = "" then
Return = 0
Else
sYear = Mid("$Hired$", 1, 4)
sMonth = Mid("$Hired$", 5, 2)
sDay = Mid("$Hired$", 7, 2)
sDate = sDay + "/" + sMonth + "/" + sYear
stDate - Cdate(sDate)
return = DateDiff("d", dtDate, Now)
End If
```

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Figure 6.

Calculations - Difference Description and Sample Script

The outlined field in the chart box shows the variance between goal (Budget) and Actual.

Example: The difference is calculated using subtraction: goal – Actual values.

return = 0 ' Set to Zero if Mgmt Headcount and Hourly Headcount fields are non numeric or blank

If IsNumeric (\$Total Salary\$) and IsNumeric ("\$Salary Goal (Box)\$") then

return = CDbl(\$Salary Goal (Box)\$) - CDbl(\$Total Salary\$)

End If



ecutive Admir esident & CEO ott Sherman Metric Headcount pen Positions Diversity Salary	nistration Plan 1,765 60 200 \$85,000,000	Actual 1,788 50 198 \$93,893,800	Variance 9 -23 10 2 -58,693,800	s to Plan 101% 83% 99% 110%			vi	Enter a formula for this field. To remove a formula, delete existing text. <u>VEScript H</u> return = 0" Set to Zero If Mgmt Headcourt and Hourly Headcount fields are non numeric or blank If JaNumeric (Stato Jakary Spatial Sulvameric (Statary Goal (Box)5") then return = CDbl(Stalary Goal (Box)5) - CDbl(Stotal Salary5) End If
Field	flabel	Type	Calc Field	Population	Assigned To	Sample	Sen al	
TotaHeadCo	ount	Text	Calcrieid	Population	Mar Emp CEO Vic	1788	90	
ApprOpenC	alc	Numeric			May Emp. CEO, Vic	-23	91	
Total Salary		Sum	Salary (Person)	Total Head Count	Mar. Emir SEQ. Vic	93893800	92	- Dec he
Total Divers	tv.	Count	caracy (rendonly	Diversity Headcou	Mar, Emp. CEO, Sic	198	93	Formula code executed:
Salary Varia	ance	Currency		in the second	Mar, Emp. CEO, Vic	-8893800	94	return = 0' Set to Zero if Mgmt Headcount and Hourly Headcount fields are non numeric or
Diversity Va	mance	Numeric			Mar, Emp. CEO, Vic	2	95	blank
Open Positio	ons Variance	Numeric			Mgr. Emp. CEO. Vic	10	96	If IsNumeric (93893800)and IsNumeric ("85000000") then
Headcount 1	Variance	Numeric			Mgr, Emp, CEO, Vic	-23	31	End If
Salary Goal	Percent	Numeric			Mgr, Emp, CEO, Vic	110	98	
Diversity Go	al Percent	Numeric			Mgr, Emp, CEO, Vic	99	99	Result:
Open Positio	ons Goal Perc	Numeric			Mgr, Emp, CEO, Vic	83	100	-8893800
Headcount 4	Goal Percent	Numeric			Mgr, Emp, CEO, Vic	101	101	
Insert Drag and D	Delete	Format Hots	oot Attachment	Formula Security	View security summary	Search Properties	• • •	Test formula on all records

Figure 7.