

# 10.2 Partial sum of the rows of a table field involved in a loop

As anticipated in chapter 10.1, to perform the partial sum of the rows of a table field involved in a cycle, it is not possible to use the "Sum" item, since the system will always take into account **ALL** the rows present within the table field.

In fact, the "Sum" item is a variable available even if a cycle is not performed. Its existence is aimed at easily obtaining the sum of all the rows of a table field without necessarily having to configure a row cycle action.

So, to get the desired result, you will have to configure a row cycle action and for each row "Update entity", in this way we will save the total inside a field of a module or a dynamic form (from version 24.08 onwards).

Once you have inserted the condition in the "Field conditions" section to involve only the interested rows in the cycle, in the entity update action you will have to use the SDK fieldAction Standard function "vte\_sum()" (for more information see chapter 12.1) to add (at each cycle) the value of the current row to the content that is already present in the field in which you are saving the result.

**ATTENTION!** -> in the case in which you configure a process that is triggered recurrently, to get the correct result you must set an entity update action that empties the content of the field in which you want to save the result.

## EXAMPLE OF USE

To better understand how it works, below is an example of a row cycling action on the "Participants" table field (Figure 1) of the Leads module from which we want to calculate the sum of the "Number" column only of the rows having the value "Reseller" in the "Type" column and save the result in the "Total Resellers" field (Figure 2)

Company Name	Type	Numero
Vtenext	Reseller	5
Klondike	Customer	2
Microsoft	Reseller	3
Apple	Customer	10

Figura 1

Total Resellers

0

Figure 2

Inside the process we configure a cycle action rows and for each row update entities of the "Leads" module (Figure 3 and 4)

Create a new action  on field  and for each row

Figure 3

Action: Cycle rows

Action title:

Conditions on field **Partecipants** of **[567] Assets (BPMN-Task: Initial Condition)**

Entity:

Figure 4

In the "Field Conditions" section, we enter "Type" = "Reseller" (Figure 5)

Conditions on field **Partecipants** of **[567] Assets (BPMN-Task: Initial Condition)**

equals

Figure 5

Inside the "Total Resellers" field we call up the interested SDK function through the "Option Selection" picklist and accessing the "SDK Functions" section (Figure 6)

Total Resellers Sum (number1,number2,...)

Figure 6

As the first parameter we insert the variable that identifies the content of the "Total Resellers" field (Figure 7)

Customer Name: Accounts Search...  
 Creator: Users List admin (Admin System)  
 Sales Order: Sales Order Search...

**Total Resellers**

- Notes
- Participants: Company Name
- Participants: Type
- Participants: Numero
- Product Name : (Products) Product Name
- Product Name : (Products) Product No
- Product Name : (Products) Part Number / SKU
- Product Name : (Products) UPC Code

Total Resellers

Figure 7

As a second parameter we insert the variable that identifies the current value of the "Numero" column of the rows of the table field involved in the cycle (Figure 8)

Creator: Users List admin (Admin System)  
 Sales Order: Sales Order Search...

Select...

- Somma
- Minimo
- Massimo
- Media
- Last
- Current**
- Sequence

Total Resellers Numero

Figure 8

Resuming Figures 1 and 2, as a final result we will obtain the sum of the "Numero" column of the first and third row of the table field, which in our case corresponds to the value 8 (Figure 9)

**Total Resellers**

8

Figure 9