

Report based on a standard data dictionary

Currently, fields like EventTime are of type VARCHAR2 in the Sentinel Database, because this is how they are sent from the source.

Goal: convert EventTime to TimeStamp in order to be able to sort by it:

Steps:

1. In the Field Selection tab, go to the Calculated Field Icon:

Admin | Report - ConvertToTimeStampReport

Field Selection

Attribute

<input checked="" type="checkbox"/> ACKTIME	<input checked="" type="checkbox"/> AGENTIPADDR	<input checked="" type="checkbox"/> APPLICATION	<input checked="" type="checkbox"/> CGATEUSERPARAMETER
<input checked="" type="checkbox"/> COMMENTACK	<input checked="" type="checkbox"/> COMMUNITYPICKUP	<input checked="" type="checkbox"/> COMPRESSION	<input checked="" type="checkbox"/> CREATIONTIME
<input checked="" type="checkbox"/> DOCUMENTTYPE	<input checked="" type="checkbox"/> EARLIESTTIME	<input checked="" type="checkbox"/> ENDTIME	<input checked="" type="checkbox"/> EOTPROCEDURE
<input checked="" type="checkbox"/> FILETYPE	<input checked="" type="checkbox"/> FINALRECEIVERID	<input checked="" type="checkbox"/> FLOWNAME	<input checked="" type="checkbox"/> GROUPID
<input checked="" type="checkbox"/> INTERNALCYCLEID	<input checked="" type="checkbox"/> ISPERMANENT	<input checked="" type="checkbox"/> ISRELAY	<input checked="" type="checkbox"/> ISSERVER
<input checked="" type="checkbox"/> LOCALADDR	<input checked="" type="checkbox"/> LOCALID	<input checked="" type="checkbox"/> LOCATION	<input checked="" type="checkbox"/> MONITORVERSION
<input checked="" type="checkbox"/> PRODUCTIPADDR	<input checked="" type="checkbox"/> PRODUCTNAME	<input checked="" type="checkbox"/> PRODUCTOS	<input checked="" type="checkbox"/> PROTOCOL
<input checked="" type="checkbox"/> PROTOCOLID	<input checked="" type="checkbox"/> PROTOCOLMESSAGE	<input checked="" type="checkbox"/> PROTOCOLPARAMETER	<input checked="" type="checkbox"/> RAPPL

2. Add a new calculated field named **date2ms** (date to milliseconds) on the field EventDate and choose FieldGroup Calculated Fields (you will find it in this category later):

Calculated field (Attribute)

Field name: date2ms Description: date2ms Field group: Calculated fields

date2ms [EVENTDATE]

Operand type: Function

Type: BigInt

Value: date2ms

Calculation Function

- String length
- Absolute
- Modulo
- Addition
- Subtraction
- Multiplication
- Days between
- msBetween
- eventTimeToMillis

Conditional Function

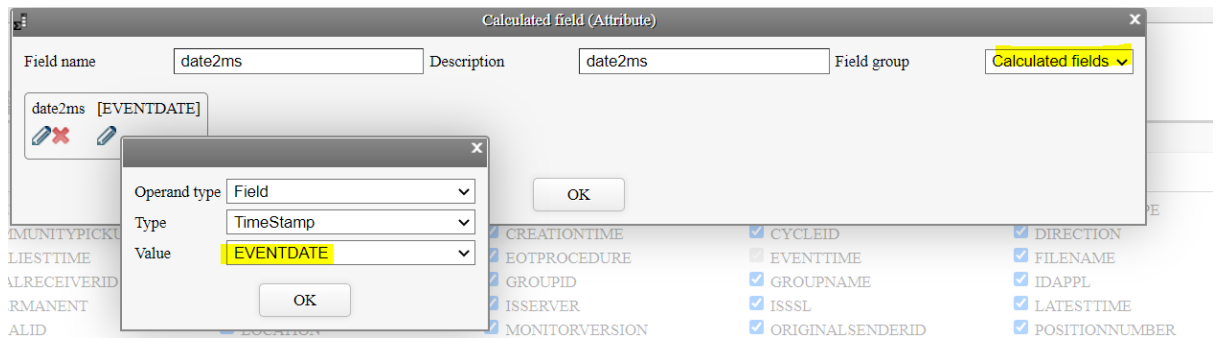
- Replace null values
- When Condition Then
- Case Any Then

Conversion Function

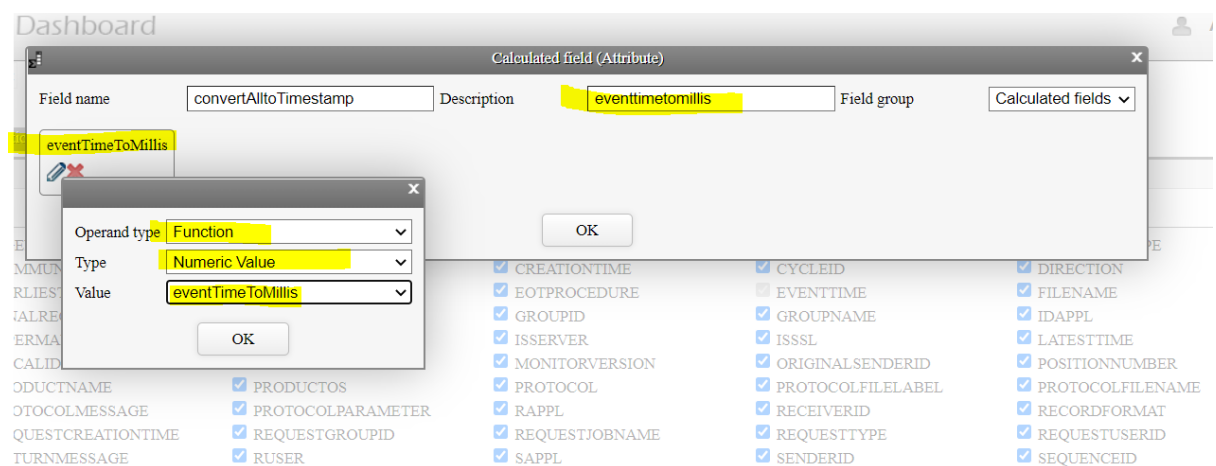
- date2ms

OK

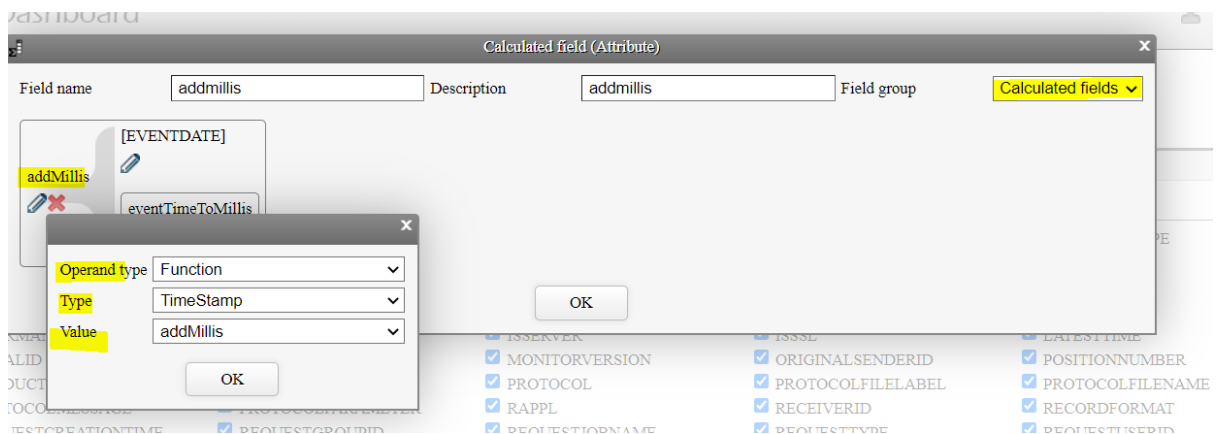
CREATIONTIME, CYCLEID, DIRECTION, FILENAME, IDAPPL, LATESTTIME, POSITIONNUMBE, PROTOCOLFILE, RECORDFORMAT, REQUESTUSERID, SEQUENCEID, STARTTIME, TARGETAPPLICA, TRANSFERTYPE, USERID, USERPROCESSE

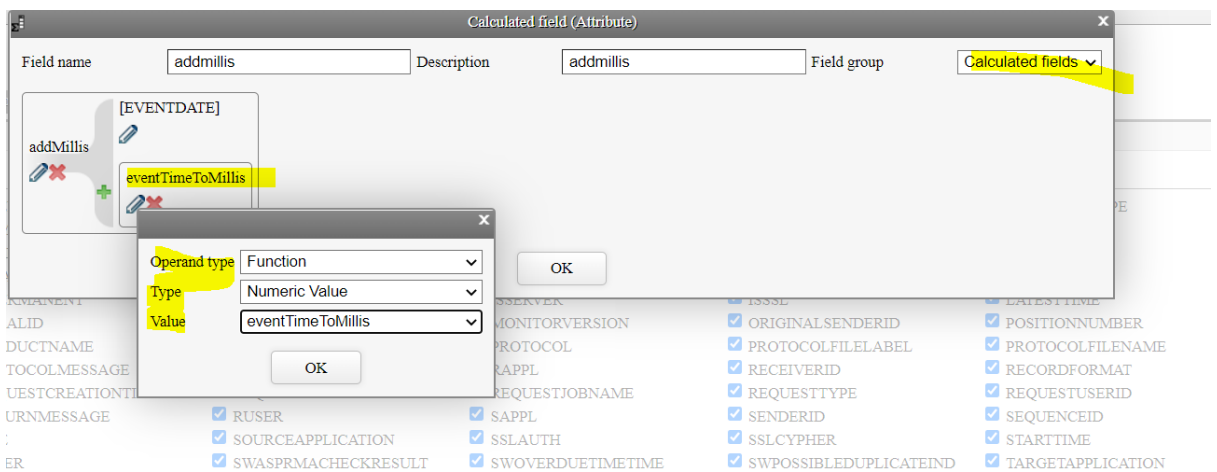
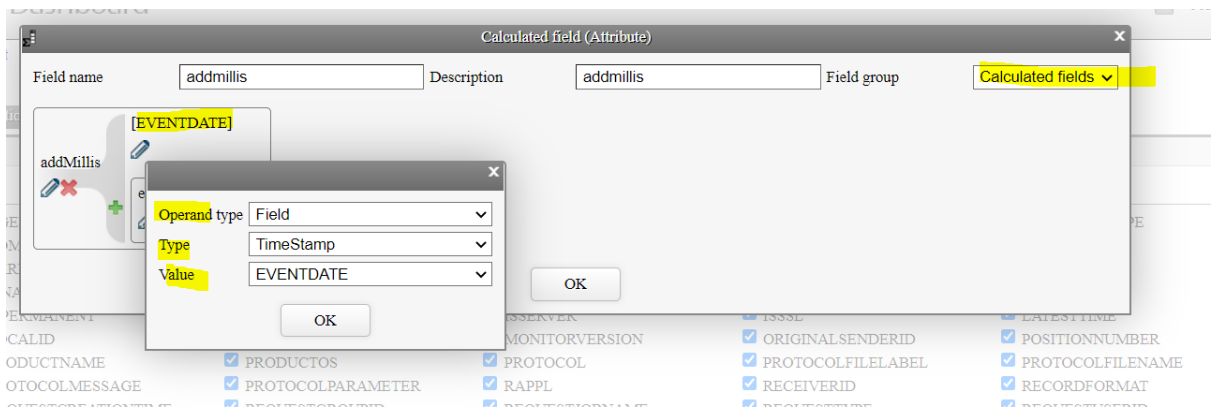


3. Add a new calculated field called **EventTime to millis** with the following configuration:

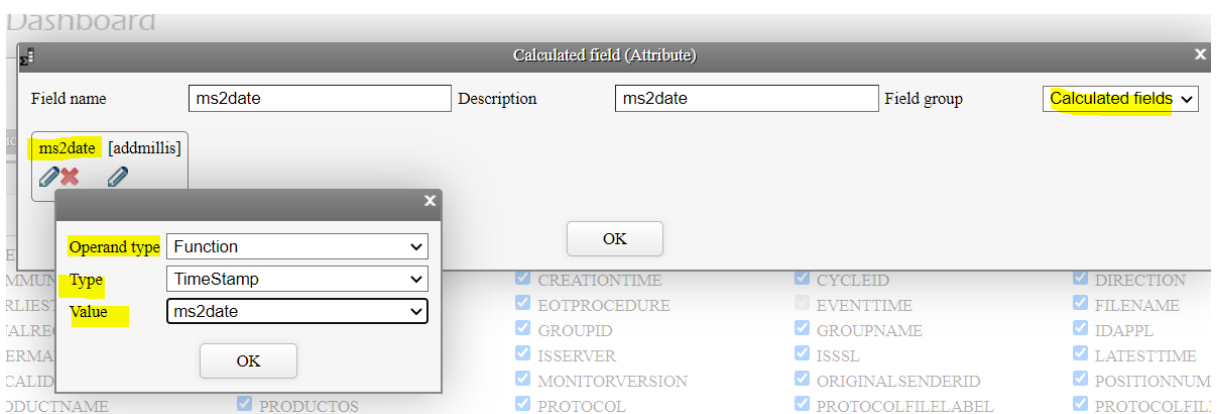


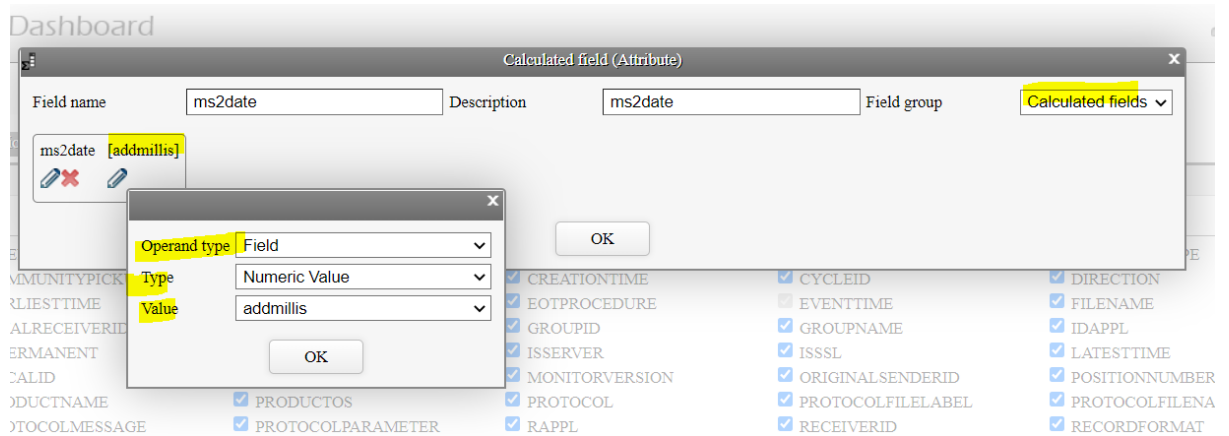
4. Create a new calculated field called **addMillis** with the following configuration:





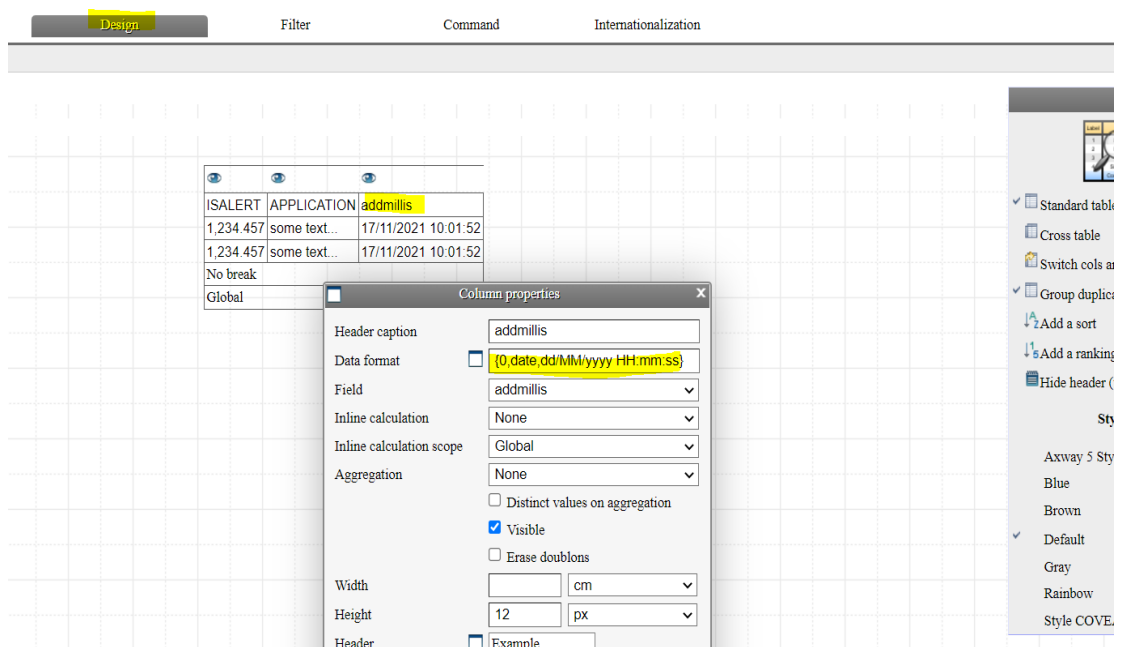
5. Create a new calculated field **ms2date** like below:





- Go to the Tab Design and add the calculated field addMillis (you will find it in the category Calculated fields) – you can give it the description name you want
- Right-click on the field addmillis and go to **Column properties -> Data format** and edit that edit box like below:

{0,date,dd/MM/yyyy HH:mm:ss}



When you execute the report, you will now see the results like this:

ConvertToTimeStampReport

10000 results

Some data ignored

<input type="checkbox"/>	ISALERT	APPLICATION	addmillis
<input type="checkbox"/>	0	Tps: 38 Vitesse: 131.578947 m/s	24/02/2021 14:51:12
<input type="checkbox"/>	0	Tps: 0	24/02/2021 14:51:12
<input type="checkbox"/>	0	Tps: 28	24/02/2021 14:51:12
<input type="checkbox"/>	0	Tps: 19	24/02/2021 14:51:12
<input type="checkbox"/>	0	Tps: 29	24/02/2021 14:51:12
<input type="checkbox"/>	0	Tps: 39 Vitesse: 128.205128 m/s	24/02/2021 14:51:12

You can use this field in your filters or to sort by it.

The same can be done with other fields, so instead of EventTime you can use any of the others, in the calculated fields configuration:

SENDTIME
TIMEACK
ACKTIME
EARLIESTTIME
STARTTIME
ENDTIME
LATESTTIME