

# [SAP ODP] Error of handling SAP decimal data type

Last updated by | Zhangyi Yu | Mar 29, 2023 at 6:56 PM PDT


















































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## Issue

When customers use ADF dataflow to move SAP data (full/initial/delta load) into expected sink store, they may meet:

1. The total length of decimal type column is inconsistent compared with SAP schema definition. For example, SAP source table defines decimal with total length of 21 including 7 decimals, but related data column in sink table is changed to be 28 as total length.



Elements

Name of S...Node ...	Concatenated Field Name	ActvFL...	K...	Data Ele...	Check table	A	Ty...	Length	Ref. table Name of include	Ref. Field N	Data Ty...	Leng...	Number ...	Doms
I_PRODUCT.NODE1	PRODUCTVALIDENDDATE	A	8	LIQDT			D	16			DATS	8		DAT1
I_PRODUCT.NODE1	PRODUCTDOCUMENTPAGECOUNT	A	1	BLANZ			N	6			NUMC	3		NUM
I_PRODUCT.NODE1	LASTCHANGEDATETIME	A	9	CHANGE...			P	11			DEC	21	7	TZN
I_PRODUCT.NODE1	CREATIONDATE	A	7	CRD_PR...			P	11			DEC	21	7	TZN
I_PRODUCT.NODE1	OVERCAPACITYTOLERANCE	A	7	CFMAXC...			P	2			DEC	3	1	DEC2
I_PRODUCT.NODE1	MAXIMUMCAPACITY	A	7	CFMAXC...			P	8			DEC	15	3	DEC3
I_PRODUCT.NODE1	PRODUCT	A	1	PRODUC...			C	80			CHAR	40		MAT1
I_PRODUCT.NODE1	CHANGENUMBER	A	9	CHANGE...			C	24			CHAR	12		ACNR

```
105 [CHANGENUMBER] nvarchar(4000),
106 [MATERIALREVISIONLEVEL] nvarchar(4000),
107 [ISACTIVEENTITY] nvarchar(4000),
108 [LASTCHANGEDATETIME] numeric(28,7),
109 [LASTCHANGEDATETIME] nvarchar(4000),
110 [DANGEROUSGOODSINDPROFILE] nvarchar(4000),
111 [PRODUCTUID] varbinary(8000),
112 [PRODUSUPCHNGHTUID22] nvarchar(4000),
113 [PRODUCTDOCUMENTCHANGENUMBER] nvarchar(4000),
```

2. The dataflow activity is failed with error "decimal can only support precision up to 38"

## Resolution

The root cause is that ADF wrongly handle SAP decimal data type during read its data, now this bug is fixed, please ask customer to take following action to solve this issue:

1. Download newest SHIR (<https://www.microsoft.com/en-us/download/details.aspx?id=39717>), version >=5.28.8465.1) and upgrade existed one.
2. For existed dataflow activity, manually add following key-value (fixDecimalPrecision:true) into DSL of SAP source, then save/publish it to run the activity.

```
source(allowSchemaDrift: true,  
  validateSchema: false,  
  store: 'SapOdp',  
  format: 'sapObject',  
  staged: true,  
  context: 'SAPI',  
  objectName: 'ZODPTEST',  
  readMode: 'fullAndIncrementalLoad',  
  fixDecimalPrecision: true,  
  keys: ['CUSTOMERID']) ~> SapZODPTEST
```

## Additional Information:

- Icm Reference: N/A
- Author: Zhuoyang Zhang
- Reviewer: Zhangyi Yu; Xiaojin Wang