SAP Note

3278535 - Number Values Stored in Docstore Collection Object are Returned in an Unexpected Floating-point Format

Version 4 **Validity:** 15.03.2023 - active **Language** English

Header Data

Released On 15.03.2023 09:37:38 **By** Beate Groetschnig (1035208)

Release Status Released for Customer

Component HAN-DB SAP HANA Database | Display ACRF Content

Priority Correction with high priority **Responsible** Jinsol Kim (1533393)

Processor Beate Groetschnig (1035208)

Category Program error

Relevant for Translation No.

Symptom

Values stored in a JSON collection object are returned in an unexpected floating-format.

Example Scenario:

In a tenant database with HANA docstore enabled:

CREATE SCHEMA 3278535 TEST;

SET SCHEMA 3278535 TEST;

CREATE COLLECTION TEST_COLLECTION;

INSERT INTO TEST_COLLECTION VALUES ('{"key" : **4.1**}'); INSERT INTO TEST_COLLECTION VALUES ('{"key" : **4.0**}'); INSERT INTO TEST_COLLECTION VALUES ('{"key" : 4.2}'); INSERT INTO TEST_COLLECTION VALUES ('{"key" : 1.1}');

If you select from the collection now, values are returned in an unexpected floating-point format like below:

SELECT * FROM TEST_COLLECTION;

=>

TEST COLLECTION

{"key": **4.099999999999999**}

{"key" : **4**} {"key" : 4.2} {"key" : 1.1} However, values stored in the collection remain unchanged.

Other Terms

JSON Document Store, Data Type Conversion, Floating Point, Numeric Overflow

Reason and Prerequisites

Issue number 298616

Reason:

Due to a programming error in SAP HANA, when returning floating numbers stored in a JSON collection object, internal data type conversion takes place. This leads to values being returned in an unexpected format although they continue to be stored correctly.

Affected Releases:

- SAP HANA 2:
 - Revisions of SPS01 SPS04
 - Revisions <= 059.06 (SPS05)
 - Revisions <= 066.00 (SPS06)

Prerequisites:

A floating number is stored in a JSON collection object

Solution

Apply one of the following SAP HANA Revisions:

- SAP HANA 2:
 - Revisions >= 059.07 (SPS05)
 - Revisions >= 067.00 (SPS06)
 - or higher
- · or higher

Workaround:

There is no workaround available

Validity

Software Component	From Rel.	To Rel.	And Subsequent	
HDB	2.00	2.00		

Support Packages & Patches

Support Package Patches

Software Component	Support Package	Patch Level	
SAP HANA DATABASE 2.0	SP059	000007	
	SP067	000000	

References

This document refers to:

SAP Notes

3128366 HAN-DB Known issues detected in SAP HANA 2 SPS06
2945435 HAN-DB Known issues detected in SAP HANA 2 SPS05
2784704 HAN-DB Known issues detected in SAP HANA 2 SPS04
2628684 HAN-DB Known issues detected in SAP HANA 2 SPS03
2525424 HAN-DB Known issues detected in SAP HANA 2 SPS02
2462139 HAN-DB Known issues detected in SAP HANA 2 SPS01
2380229 HAN-DB SAP HANA Platform 2.0 - Central Note

This document is referenced by:

Customer Incident (1)

Number	Year	Title	Status	Processor	Customer Number	Customer Name
0000794537	2022	Cannot insert decimal number	Restricted		0000326807	Ministry of Defense IDF MAMHI (Navy

SAP Notes (2)

3284085 HAN-DB <u>SAP HANA 2 SPS06 Revision 067.00</u> 3267762 HAN-DB <u>SAP HANA 2 SPS05 Revision 059.07</u>

ServiceNow Case (1)

Number	Year	Text	Status	Processor	Customer Number	Customer
0000794537	2022	Cannot insert decimal number	Closed	Jinsol Kim (I533393)		