

Handling Exponential Values while Integrating Salesforce within DBSync

Issue :

The Salesforce API provides exponential value when there are more than 8 digits in the currency field. As shown in the below screenshot, Annual Revenue is a currency field in Salesforce Account Object and value within that field is "139,000,000" which is more than 8 digits.

Account Detail				Edit Delete Include Offline	
Account Owner	DBSync SF [Change]			Rating	Hot
Account Name	Edge Communications [View Hierarchy]			Phone	(512) 757-6000
Parent Account				Fax	(512) 757-9000
Account Number	CD451796			Website	http://edgecomm.com
Account Site				Ticker Symbol	EDGE
Type	Customer - Direct			Ownership	Public
Industry	Electronics			Annual Revenue	\$139,000,500
Billing Address	312 Constitution Place Austin, TX 78767 USA Austin, TX			Shipping Address	312 Constitution Place Austin, TX 78767 USA

So, when the same is been previewed via DBSync Advanced Query Builder. The value would show as "1.39E8", which is nothing but an exponential value and it is not issued with DBSync or the UI but it is how salesforce API gives the response on external applications. This value may or may not be accepted by the target system.

Query Result	
Row 1	
<pre><row> <Id>0017F00000QBzyGQAT</Id> <Name>Edge Communications</Name> <Description>ref 102</Description> <Rating>Hot</Rating> <AnnualRevenue>1.39E8</AnnualRevenue> <Owner> <type>User</type> <Name>DBSync SF</Name> </Owner></pre>	

Solution :

The best practice is to have this converted to an exact number which is the same as in Salesforce UI and send it to the target system. This can be done using the DBSync standard function FORMAT. This is the mapping for the target field - `FORMAT(VALUE("AnnualRevenue"), "0.0")`

AccountRevenue	<code>FORMAT(VALUE("AnnualRevenue"), "0.0")</code>
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Post the sync target system will have the value as shown below in the screenshot.

```
Sample1.txt - Notepad
File Edit Format View Help
Id,Name,AccountRevenue
0017F00000QBzyGQAT,Edge Communications,139000000.0
0017F00000QBzyHQAT,Burlington Textiles Corp of America,3500000.0
```

Resources :

<http://help.mydbsync.com/docs/display/dbsync/Standard+Functions>