



TM1 Technical Bulletin

Using the CellGetN TurboIntegrator Function in Batch Update Mode

Date: February 15, 2007

Relevant TM1 Versions: TM1 8.4.x and newer

This technical bulletin describes updated logic that is now applied when using the CellGetN function to retrieve rule calculated, consolidated, and leaf cell values in TurboIntegrator processes with batch update mode enabled.

Overview

In Pre-8.4 versions of TM1, the retrieval of rule calculated, consolidated, and leaf cell values in TurboIntegrator processes during a batch update was incorrect for the following reasons:

- The CellGetN() TurboIntegrator function was retrieving invalid and incorrect values for rule calculated, consolidated, and leaf cells if batch update mode was turned on in a TI process.
- The behavior of a TI process during a batch update was inconsistent with the rest of TM1, such as viewing a cube in Server Explorer while batch update mode was enabled.
- The behavior of a TI process during a batch update was also inconsistent with the description of batch update in the TM1 documentation.

For these reasons, the retrieval of values with the CellGetN() function has been fixed in TM1 versions 8.4 and newer. Refer to the following table for details.

The following table summarizes the corrected behavior of using the CellGetN() function in a TI process during batch update mode. The table also shows the behavior of viewing a cube in Server Explorer while in batch update mode.

Case	Behavior in: Pre-8.4 versions of TM1	Corrected Behavior in: 8.4 and newer versions of TM1
In a TI process, if a user enabled batch update mode, executed any CellPutN() statement, and then executed a CellGetN() on a rule calculated, consolidated, or leaf value ...	<ul style="list-style-type: none"> • The original rule calculated or consolidated value was incorrectly returned. • The original leaf value was incorrectly returned. 	<ul style="list-style-type: none"> • An undefined (null) value is now returned for rule calculated, and consolidated cells. This returned value indicates that a valid calculated or consolidated value is not currently available. • The updated value is returned for a leaf cell.
In Server Explorer, if a user enabled batch update mode, opened a view, modified a value in the view, and then recalculated ...	<ul style="list-style-type: none"> • A value of #N/A displays for rule calculated and consolidated values. • The updated value displays for the leaf cell. 	Same behavior as before.

NOTE:

- Valid values for rule calculated and consolidated cells can only be retrieved *after* a batch update has been completed.
- If you are using the CellGetN() function in a TI process with batch update mode enabled, you can use the ISUND function to test the returned value. The ISUND function returns 1 if a specified value is undefined, otherwise it returns 0.