**BUFFER ISSUE RESOLUTION DOCUMENT (BIRD)**

**BIRD ID#:** TBD

**ISSUE TITLE:** *Clarify definition of Tx\_Dj*

**REQUESTER:** *Walter Katz, Signal Integrity Software, Inc.*

**DATE SUBMITTED: TBD November 4, 2014**

**ANALYSIS PATH/DATA THAT LED TO SPECIFICATION:**

The definition of the AMI Reserved Parameter Tx\_Dj is inconsistent with the other notes for Tx\_Dj. This BIRD modifies the definition of Tx\_Dj to be consistent with the notes. A common understanding of Deterministic Jitter is that it contains both Data Dependent Jitter (DDJ) and Bounded Uncorrelated Jitter (BUJ). In *Other Notes:*

*Time(n) = n \* bit\_time + 2.0 \* Tx\_Dj \* rand()*

clearly defines BUJ, and has no Data Dependent component. We should therefore define Tx\_Dj to only include BUJ.

I also took the liberty of changing uncorrelated bounded jitter to Bounded Uncorrelated Jitter (BUJ).

Replace the following definition on page 208:

*Definition:*           The worst case half the peak to peak variation at the transmitter implemented by the EDA tool by modifying the stimulus input or by post processing the simulation results. Tx\_Dj shall include all deterministic and uncorrelated bounded jitter that is not accounted for by Tx\_DCD, and Tx\_Sj. Entries are assumed to be in units of seconds when declared as Type Float.

With

*Definition:*           The worst case half the peak to peak variation at the transmitter implemented by the EDA tool by modifying the stimulus input or by post processing the simulation results. Tx\_Dj shall include all Bounded Uncorrelated Jitter (BUJ) that is not accounted for by Tx\_DCD, and Tx\_Sj. Entries are assumed to be in units of seconds when declared as Type Float.