December 2018 LMP Model Build
Follow-up

Markets Applications
March 2019
The December 2018 LMP model build resulted in pnode ID values that exceeded the Java 32-bit \textit{int} data type threshold.

The new pnode ID values caused issues for PJM and participant systems.

Pnode IDs are generated using sequences that are shared across multiple tables in the Market databases - pnode ID values can increase significantly between model builds.

To resolve the issue, PJM altered systems to process pnode IDs using larger data types (i.e. Java \textit{long}). Participants made similar changes to accommodate the new pnode ID values.

At the January 2019 Tech Change Forum meeting, participants requested additional clarification and follow-up.
Next Steps

- **COMPLETE** - PJM will implement changes to markets systems to slow the growth of pnode IDs values prior to the March model
  - Pnode IDs will continue to grow, but at a reduced rate
  - 1:1 mapping between new Pnodes and Pnode ID values

- **IN-PROGRESS** - PJM will perform an internal proof-of-concept during the March 2019 model build to determine if Pnode IDs can be released to participants before the production model build
  - March model build proof-of-concept was successful
  - PJM plans to release Pnode IDs to participants when the new pnode list is posted to PJM.com (approximately one week prior to the production model build)