



# 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 *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 *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

- **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 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)