



December 2018 LMP Model Build Follow-up

Markets Applications
February 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

- Strengthen communication during the event
 - In the future, PJM will send member notifications detailing root cause and resolution as soon as practicable
- PJM is implementing 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
- 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
 - Potential to implement for Q2 model build if successful
 - Update at the April 2019 Tech Change Forum