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 \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

• 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