



GRIDSCALE X ADVANCED PROTECTION ASSESSMENT

External Network Reduction

Read Advanced Protection Assessment databases with bus count above the permitted by your bus-limited license and easily find systems equivalents, while preserving the benefits of the price of your bus-limited license.

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At a glance

The External Network Reduction (ENR) module supports users with bus-limited APA licenses to read and manage APA databases that exceed the licensed bus limit.

Without bus restriction counts, customers could reduce systems models of any bus size to electric equivalents that may be then used by APA within the limits of their bus-limited license.

The challenge

APA customers may recurrently receive updated external network data from their reliability regulatory organizations or utility neighbors. The integration of this external system into the customer's production model is desirable as the short circuit results will be more accurate in the vicinity of the external network.

Separately, the APA customer may have licensed a version of APA with limit of certain bus count.

If the APA user coincidentally faces these two situations, receiving an external network model to integrate into the production system model and owning a bus limited license, it may be the case that reading the external system model could violate the limit of the licensed bus size, rendering the external data integration impossible.

Our solution

The External Network Reductor (ENR) module solves the described issue by allowing reading external system models of any bus size by APA.

When using the ENR, the APA user can then find the electrical equivalent of the external network model. If this reduction is done correctly, the resulting external network electric equivalent can be integrated into the production APA database such that the integrated system network fits within the allowed bus limit of the licensed bus limited APA license.

External Network Reduction Features

- Reads APA databases of any size, no matter how large
- When active, ENR allows the use of the Database Editor and Short Circuit Reduction module
- With this, the customer may edit the read database as convenient

- Similarly, the Short Circuit Reduction module could then be used to find system model electrical equivalents of any number of buses retained or buses reduced

Once the reduction task is performed and done, the user may exit the ENR module. Upon this action, all the modules licensed by the user are available once more and the bus limit of the owned license is enforced.

The integration of two separate APA databases is not performed by the ENR module.

External Network Reduction in Action – Features

- Read and reduce any APA database of any size from your bus-limited APA license
- Facilitates the integration of large external system networks into your production system model

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