

SEC Tool

Core Capacity Calculation Tool



SEC (Scheduled Exchange Calculation) Tool is a backup solution for Operators of Joint Auction Office (JAO). It would be used in case of the Core Capacity Calculation tool (CCCT) unavailability as it enables to create and distribute all the necessary message flows corresponding to the Post-coupling phase of CCCT while heavily using a synergy with the CCCT mainly in terms of configuration. The Unicorn Application Framework (UAF) product was used as the technological foundation of the solution. Provided application is developed as a web-based one, but packed into a standard desktop software executable on laptops of JAO Operators.

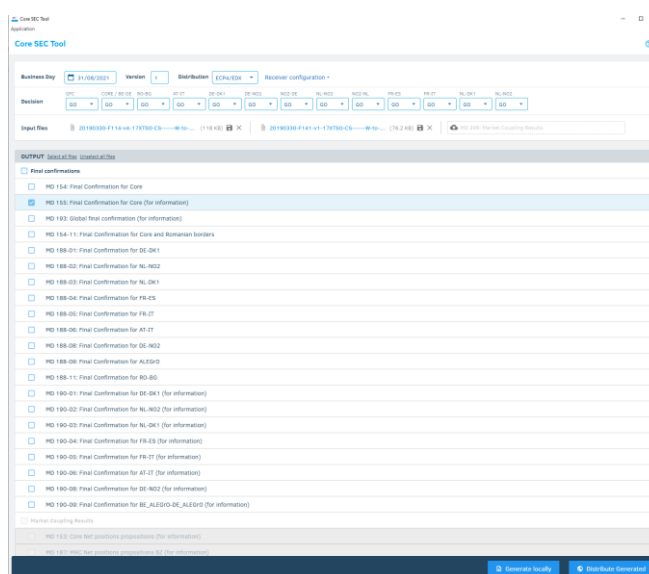
Success Story

The original CWE JAO SEC tool used as a backup solution for the CWE Common System of TSOs was originally built as a quick temporary solution based on Visual basic macros on many sheets of an Excel file. Such a solution:

- has a complex maintenance due to old VBA scripts
- started to reach performance limits of MS Excel
- deviates from some new message formats used for CCCT (i.e. new implementation would be needed)
- does not allow easy configuration synchronization with the new CCCT

The new Core JAO SEC tool is replacing the existing Excel solution for CWE, aligning with new formats, methodology and decisions done for CCCT. New application brings following advantages:

- easier maintenance thanks to standard and modern programming language (Node.js)
- higher performance
- easy configuration synchronization with CCCT
- alignment with CCCT outputs and automatic comparison of outputs in tests
- business and technical design available in an online book



Testimonial

Unicorn provided a successful delivery of the JAO SEC tool for Core, covering business analysis, technical design, development, testing, project management of the delivery. Unicorn supported JAO from IT perspective in a good manner to be get the system ready and to bring the added value during all phases of the project.



Joint Allocation Office (JAO) is a service company that facilitates the electricity market by organizing auctions for cross border transmission capacity. On the 1st of October 2018, JAO became the Single Allocation Platform (SAP) for all European Transmission System Operators (TSOs) that operate in accordance to EU legislation, since it is able to implement and fulfil all regulatory obligations and requirements.

JAO performs long- and short-term auctions of transmission capacity. JAO can offer annual, non-calendar annual, half-yearly, quarterly, monthly, weekly, weekend, daily and intra-day auctions. TSOs and Regulatory Authorities decide what auctions are performed on individual borders. Next to this JAO provides administrative and settlement services to TSOs and acts as a fall-back for the European Market Coupling. JAO is owned by twenty-two Transmission System Operators (TSOs) from nineteen countries.