

EUROSTIA NEWSLETTER – JULY 2023

Since Yodiwo's last project update, Eurostia has made some great leaps in completing their Asset Management with great success confirmed by applied cases. The team has developed cutting-edge features in:

a. Maintenance Management

The project has noted further development with the completion of YodiFEM's Maintenance Management feature. Users can now benefit from a software wizard setup allowing them to add schedules for specific assets. The running scheduler triggers the actions of all activated schedules at a specific point in time and creates asset maintenance issues. These issues are created in the service, provided by the users. All linked and planned issues are shown in a calendar for the selected time range and hierarchy.

b. Anomaly Detection Training Methodology

As part of the anomaly detection methodology provided in our platform, users have the opportunity to dynamically create anomaly detection scenarios they wish, combining more than one measurement. In the relevant widget, the users can select the measurement or the measurements they would like to monitor, configure the training scenario by selecting the appropriate training period and settings or retain the default ones, and finally fire the training process. As soon as the training of the model has been completed, notifications are sent to the users while a scheduler is triggered as well, which runs periodically once per day to detect possible anomalies.

c. Validation, Improvement & Enhancement of smart cooling/heating

Additional validation cases have been included to determine the feasibility and value of free cooling and free heating mechanisms that Yodiwo implemented. More specifically, apart from the first actual building located in Athens (Greece) that was used for evaluation reasons, a second building located in Krioneri (Greece) was also used, belonging to a financial services company in Italy, specialized in the design, implementation, and management of technology infrastructures and services. Having implemented both these two validation processes and comparing the actual results, we can conclude that the smart cooling and heating algorithms managed to reduce the amount of energy consumption in both buildings significantly with great success in real scenario uses.