



## Energy Data eXchanger for the Trading (EDX-T)

**EDX-T** is the **unique interface** through which the Trader can view all the updated information and operate in real time on the Power Markets, from the OTC to the Physical Exchanges:

- ❖ **Bilateral transaction management (PCE)**: communication of transactions to the PCE platform and automatic generation and sending of appointments on PCE
- ❖ Management of spot market transactions (IPEX-MPE): management of **MGP (day ahead)** markets and various **MI (intraday)** sessions, reconciliation and stock exchange settlement

**EDX-T** is the solution to manage in an integrated way the operations on the Italian power markets based on the many years of experience and the focus of IFS Italia in the development of applications in the energy sector:

- ❖ It is Made in Italy, ensuring perfect **compliance with the evolution of regulations** over time, also with a view to the upcoming introduction of **continuous markets**
- ❖ Security is guaranteed with **maximum flexibility in digital signature management**: tokens can reside on the user's centralized server or PC, with back-up tokens in the event of a malfunction of the main token
- ❖ **High automation**: it is possible to schedule the generation and sending of offers to the market at any date / time or following specific events
- ❖ Allows **fully customizable bidding strategies**
- ❖ Constantly monitored thanks to **alert mailing** in case of problems relating to communication with tokens or stock exchange transactions
- ❖ **Easily integrated** with other trader systems (Front-Middle and Back Office) via **API Rest** which allow access to system data in input and output

### *EDX-T automates and speeds up the IPEX process cycle*

The system manages all the steps of the process (authentication, sending & receiving results, updating statuses, receiving trades and settlement data) and makes the Trading workflow completely automated, from the insertion of physical forecast data, to the reconciliation of the daily calculations of settlement to GME, up to the outout to the Back Office systems:

- Import and management of the forecast of "offer points" from Forecast systems
- OTC contract management: insertion and updating of OTC contracts and automatic generation of transactions for communication to the PCE platform
- Automatic generation and sending of PCE programs based on priority of "offer points" that can be modified by the user
- Automatic generation of offers, both in replacement and in addition, created using embedded strategies based on forecasts, nominations and positions per "offer point", or algorithms developed independently by the trader in EDX-T through integration with Python or other languages

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Roma: Largo Lido Duranti, 1/D - 00128 Roma - Tel. +39 06 5089991 Fax + 39 06 5089971  
 Milano: via Montefeltro, 6 - 20156 Milano - Tel. +39 02 3319885 Fax +39 02 3452138  
[www.ifs-italia.it](http://www.ifs-italia.it) e-mail: [info@ifs-italia.it](mailto:info@ifs-italia.it)



- Management of positions aggregated at overall physical portfolio, by energy account, area and “offer point”
- Massive import and automatic sending of offers in xml format, making it possible to re-submit them quickly
- Management of the reconciliation from / to GME
- Centralized repository of all data exchanged with the markets, including official transaction IDs and validation outcomes / responses, with access to archived information through user-customizable reports, export to xls, csv or Cut & Paste files on screen



## ***A robust and reliable technological architecture***

EDX-T guarantees high performance, service level and reliability in “mission critical” contexts thanks to quick reporting and diagnosis tools, SLA monitoring and reporting functions. The modular web based architecture running on MS Windows and MySQL platform (portable on any relational database) can be distributed on multiple sites and hardware systems to meet the needs of complex and geographically distributed organizations.

System authentication, via Keycloak, meets the most advanced security criteria, with the ability to integrate with LDAP and ActiveDirectory.

For the management of authentication on the markets and digital signature, EDX-T uses ad hoc libraries that allow total flexibility in the use of USB tokens. The authentication and signature module can reside on the user's server or client PC and can use both software certificates and certificates residing on tokens for authentication. This allows to have signatures and even massive sending of offers both automatically and guided from the workstation by the single operator. The system automatically manages any switch between a main token and a backup token in case of malfunctioning of the main token.

Finally, the integration with other systems is guaranteed by API Rest developed ad hoc and special connectors already available to support the import / export of data or which can be made on request.