



Information Systems Access Guide

OMIClear

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Version Index

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1 Introduction

This document is a reference guide for Participants and Clients of OMIClear's applications and communications infrastructure. It aims to clarify how technological access to OMIClear's Clearing Platform and supporting Information Systems is accomplished. The following points are highlighted:

1. Specification of access solutions to OMIClear's Clearing System, Website and File Transfer Platform;
2. Procedures for access requests and user support;
3. Specification of technical requirements for the different OMIClear systems;
4. Description of possible connectivity types to OMIClear;

Targeting points above, the document is structured in 3 sections:

- Systems accesses description (chapter 2);
- Systems accesses requirements (chapter 3);
- Available connectivity types (chapter 4);

This document and the others referenced in it are available on OMIClear website, at the following address: <https://www.omiclear.pt/en/operational-documents>.

2 Systems access description

OMIClear provides distinct Information Systems which can be organised in two distinct groups:

- a. The main clearing system; and
- b. File retrieval systems.

The clearing system is named **MiClear** and supports OMIClear's activities as a CCP, such as clearing, margin and settlement intra-day and end-of-day reports. It is accessible to participants of those services and provides GUI and API interfaces for retrieving clearing reports on-demand, either intra-day or end-of-day.

The second group – file retrieval systems – comprises file repositories with public and/or private clearing data for a range of purposes, such as backoffice integration and regulatory reporting. Typically, these files are sourced from the main clearing system and completed with complementary data and are typically generated at end-of-day. Currently there are two

systems in this group: OMIClear's website and the File Transfer Platform. The diagram below provides a better understanding on how OMIClear's systems work together:

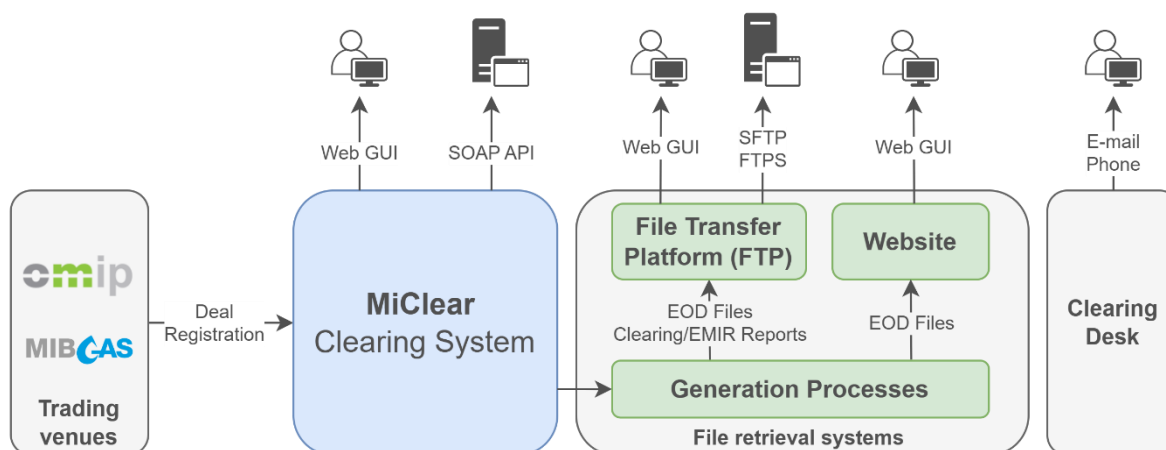


Diagram 1 - OMIClear systems and interconnections

The following subchapters provide further detail on each system and the procedures required to gain access and retrieve information.

2.1 MiClear Clearing System

MiClear is a proprietary system designed by OMIClear to support the clearing and settlement of power and natural gas trades executed on the OMIP and MIBGAS trading venues.

MiClear is accessible to the participants of OMIClear services and provides two read-only interfaces: a Web Graphical User Interface (Web GUI) for manual usage and a SOAP API for automated integration. The same reports can be retrieved from both interfaces, albeit with different formats:

- Billing reports
- Collateral report
- Margining reports
- Markets Information
- Position Reports
- Settlement Reports
- Trade History

The Web GUI permits an easy user-friendly access to reports and is accessible by any modern browser. It is available on the following address: <https://clearing.omiclear.pt>.

After a successful login, the reports that are available for download are displayed in the menu at the left, in an explorer-like interface. After selecting a report, an input form will be shown where the user must select the search criteria. After submitting the request, the report will be generated on server-side and displayed after completion. The report consists in one or more data tables and possibly subreports which can be analysed, filtered, printed and exported to the XLSX, PDF, CSV and XML formats.

The API interface provides a programmatic interface for information retrieval from the platform, allowing integration of data from it on other applications / systems. Like the Web GUI, the API is read-only. It is a SOAP-based API and can be accessed with software written in any language that supports this technology. The API technical specification (WSDL) and access guide is provided to participants and prospective participants upon request to the Information Systems department.

As a SOAP based API, the reports are returned as structured XML, which must be converted to the desired output / format on client-side. Communications with the API are encrypted using TLS 1.2+ and every request must be authenticated with HTTP Basic authentication.

The following table resumes the existing accesses available for MiClear:

MiClear Accesses	Web GUI	API
Report extraction	Yes	Yes
Available reports	Billing reports, Collateral reports, Margining reports, Markets Information, Position Reports, Settlement Reports, Trade History	
User Interface	Yes	No
Programmatic Interface	No	Yes
Access link	https://clearing.omiclear.pt	WSDL file

Web GUI and API user accesses must be requested to the Clearing department via a G02 form, signed by a representative from the Participant.

2.2 File Transfer Platform

The File Transfer Platform (FTP) provides interfaces for retrieving files generated in the scope of one of the following subscription services:

Service name	Description	Target	Subscription Form
EOD Files	Clearing Prices, Margin parameters and Instrument data	Any user	G05 (Marketing)
Clearing Report Retrieval	Clearing reports in CSV/XML format generated on behalf of the Participant (simpler but less flexible alternative to the API interface)	Participants	G08 (Clearing)
EMIR Reporting	Trade, valuation and collateral reports submitted to the DTCC Trade Repository by OMIClear, on behalf of the Participant.	Participants	EMIR agreement (Clearing)

The format, structure and content of the files provided in the FTP is described in each service guide.

The FTP provides the following interfaces:

Name	Protocol	Manual usage	Automation usage
Web GUI	HTTPS	Yes	No
SFTP	SSH File Transfer Protocol	Yes (with client)	Yes
FTP	FTP over TLS (explicit mode)	Yes (with client)	Yes

2.3 Website

The OMIClear Website is updated at the end of each clearing session with general market and clearing information. The updated files can be retrieved from the download section, where the following information can be retrieved:

- Market Data (Market Bulletin, Spot Prices and Volumes, Clearing Prices, Risk data);
- Clearing Info (Calendar, Instrument List, Price list);
- Products and Rules;
- MIBEL regulation.

- Registration Models

Files can be available to download in CSV, Excel, PDF and in some cases in a bundle, as a ZIP file.

The OMIClear Website should be reachable from most modern web browsers on the following link: www.omiclear.pt. Clearing data is available for manual retrieval for all users (registered or not), however it is not advised for automated integration as it can change at any moment without previous information.

3 Systems Access Requirements

Each platform access method has its own requirements. Some were already approached on the previous section, but next requirements are listed together for each access type on all OMIClear platforms.

3.1 MiClear access requirements

As detailed before in this document, MiClear has two access methods: Web interface and API. Both have the following requirements (divided by logistic and technological requirements):

- **Access requirements:**
 - Be a participant or a prospective participant in OMIClear clearing services; More information on how to become an OMIClear member can be find in the OMIClear Website.
 - Have a valid username and password. The passwords must meet the password policy in effect.
 - The request for new users can be made via e-mail to the clearing department by submitting a G02 form (Operator Management)
- **Technological requirements:**
 - A connection to OMIClear systems (chapter 4 for details on this);
 - Unrestricted access to the system: <https://clearing.omiclear.pt>;
 - Available access to Port: 443 (https);
Special care for no firewall, anti-virus or any other packet sniffer blocks accesses to the given destination and Port;

- For Web Interface access: Microsoft Internet Explorer web browser (most recent versions must use compatibility mode). Other browsers can also work but OMIClear only tests with Internet Explorer;
- For API access: needs development in programming language with web services support.

3.2 File Transfer Platform access requirements

The requirements for accessing the FTP are described below.:

- **Access requirements:**
 - Sign the subscription model for the requested service;
 - Have a valid username and password - initial passwords are provided as a one-time link and must be changed on first access. The password is communicated to the responsible user only.
- **Technological requirements:**
 - A connection to OMIClear systems (chapter 4 for details on this);
 - Available access to destination: <ftp.omiclear.pt>;
 - Ports:
 - Web GUI (HTTPS): 443
 - SFTP: 8022
 - FTP over Explicit TLS: 8021
 - A functioning FTP Client or software which enables connection to a FTP platform;

3.3 Website access requirements

OMIClear Website does not have any special requirement so the ones listed below are the ones applied on most internet websites:

- **Access requirements:**
 - For open market information there are no access requirements since currently information can be retrieved with or without logging in to the Website;
- **Technological requirements:**

- A connection to OMIClear systems (chapter 4 for details on this);
- Modern Internet Web Browser (Edge is recommended);
- Available access to regular https port (443);

3.4 Encryption protocols and algorithms

OMIClear aims to use secure and robust encryption technology in its Information Systems, in accordance with its Cryptography Policy. Encryption protocols and algorithms are reviewed periodically and communicated to the clients in advance to avoid disruptions.

4 Connectivity to OMIClear's systems

Connectivity to OMIClear's systems can be achieved by two connectivity options: an internet connection or a dedicated connection (leased line). Both give access to all OMIClear systems, therefore the choice between the best option is not system dependent. While the first is straightforward the second will take longer but can be preferable due to reliability concerns.

The following table summarizes the differences between the two connectivity options:

Connection	Leased Line	Internet
MiClear	Yes	Yes
File Transfer Platform	Yes	Yes
Website	Yes	Yes
Implementation time	Usually over 2 months	Not required
Access type	Dedicated	Shared (public)
Cost	Setup and Annual fee	Free

Further description on each solution, requirements and advantages/disadvantages for both are analysed next.

4.1 Internet connection

Clients that intend to connect to OMIClear Systems by an Internet Connection, should have a link to an Internet Service Provider (ISP) with an appropriate bandwidth for the intended use. Suggested minimum bandwidth is at least 10 Mbps.

OMIClear systems are connected to the Internet with a dedicated bandwidth, however this bandwidth underlying resources are shared for everyone, meaning that the overall performance might vary and could be impacted by the number of connections at any given time.

4.2 Dedicated Connection

Connection to OMIClear by leased lines grant a dedicated bandwidth and more stable connections.

Leased lines have an initial setup and an annual fee due to the setup and maintenance of the network / equipment that in OMIClear's datacentre will connect to the line. These costs are established in the OMIClear Price List available in our website.

The requirements to establish a leased line are:

- 1) First the model **G01 - Trading / Clearing Systems Access Technology** must be fulfilled and delivered to OMIClear Marketing department;
- 2) The participant is free to have its preferred connectivity provider;
- 3) Be aware of the following technical requirements for the delivered line:
 - UTP cable
 - Address range: 2 IPs
 - Capacity to NAT to OMIClear compatible network (not always necessary)
 - The line end must be delivered to OMIClear's datacentre address (to be provided during the setup process)
 - On a disaster situation, OMIClear will recover to a disaster recovery datacenter. If necessary, another line can be delivered at this location (address to be provided on request):

Please notice that it is important to communicate the technical requirements on time to the line supplier.

- 4) The interconnection network type between dedicated line provider and OMIClear systems must be communicated;

5 Contacts

Any problem or support needed for meeting the logistic requirements can be forwarded to OMIClear Clearing or Marketing departments who will be happy to help in these questions.

- **Clearing desk** recorded phone number: +351 21000 6020
- **Clearing desk** email address: clearing [at] omiclear.pt
- **Marketing** email address: marketing [at] omiclear.pt

Questions related with the operation on the MiClear platform should be made to Clearing and problems on operation with the website and File Transfer services should be made to the Marketing contacts.

Any problem or support needed for meeting the technological requirements can be forwarded to Information Systems department who will be happy to help in these questions:

- Direct **Information Systems** email address: IS [at] omiclear.pt