

MTS CO- LOCATION HOSTING

Milan

15 OCTOBER 2017



1. Introduction

MTS S.p.A., acting also as service provider of EuroMTS Limited and MTS France S.a.s, launched the Co-Location Hosting service in 2010, providing Co-Location and other associated supporting services to customers. The MTS Co-Location Service allows customers, including Market Participants, market data users and authorised third parties, to host their servers within the primary data centre of MTS (provided by SIA), thus putting them as close as possible to trading and market data systems.

The MTS Co-Location Hosting service provides cabinet space, power, cooling and market connectivity to customers in the SIA (the MTS technology provider) Primary Data Centre located in Milan, in addition to other associated services such as time synchronisation feeds. This policy document encompasses Co-Location services relevant to the MTS markets.

This document, published by MTS on its website, provides key policy information relating to the operation of the MTS Co-Location Hosting service to customers.

1.1 Document Structure

The document includes information related to the following elements of the service:

- Service provision;
- Cabinet characteristics;
- Facility attributes;
- Network connectivity;
- Telecommunication Service to External Locations;
- Technical support;
- Pricing policy;
- IT and Operational Arrangements; and
- Related Products and Services.

2. MTS Co-Location Hosting Policy

Consistent with MIFID II, the MTS Co-Location Hosting Policy aims to provide all subscribers, who are accessing the same co-location services with equivalent conditions of service, including latency.

2.1 Service Provision

The MTS Co-Location Hosting service is provided to all users under the same conditions of service with regard to space, power, cooling, cable length from client cabinets to trading venues, market connectivity, technology and technical support.

2.2 Cabinet Characteristics

Listed below are the cabinet characteristics:

1. Each customer is allocated the number of dedicated locked cabinet ordered for its Co-Location equipment in the same data room with same cable length.
2. The cabinet size is of cm 60x101x200. MTS' Data Centre hall has facilities to accommodate 42 units
3. The cabinet is provided with A/B switch video, keyboard and mouse.
4. All MTS Co-Location Service cabinets have the ability to supply 3kW power standard, with the option to request up to 5 kW. Two power strips are provided in each cabinet as standard. Each of these power strips are fed via a separate UPS supply. Customers are therefore recommended to use equipment which has dual power supplies to avoid potential single points of failure.

2.3 Facility attributes

The facility in which the MTS Hosting service operates has the following security, power, cooling and physical protection attributes:

1. Anti-Intrusion security:
 - Surveillance service available 24 hours a day, 365 days a year with armed security during the night and 24 hours on Saturdays and Sundays;
 - Extensive CCTV video-surveillance system along the entire perimeter of the building, with a special focus on the areas housing technological structures and high-risk areas;
 - A "Security system" is supported by a centralized and resilient supervision system and by a set of processes that lead to the creation of organizations and procedures which are periodically tested and ISO 27001:2005 certified;
2. Physical access control at various hierarchical levels;
3. Power Supply Continuity:

- Provided by two different, independent and interchangeable urban supply rings, and by two interchangeable UPS lasting for around 3 hours each, as well as two additional interchangeable power generators sets;
- 4. Cooling is available at an N+1 redundancy level;
- 5. Fire protection;
 - Provided by fire detectors and automatic HFC23 and CO₂ fire extinguishers managed by a supervisor and monitored 24/7 by qualified staff;
- 6. Floor and ceiling water detection
 - Protected by water containment tanks;

2.4 Network connectivity

The MTS Co-Location service includes the provision of dedicated network access points to the MTS Markets located in the primary site for each rack:

1. 1GB Internal resilient connectivity (copper connectivity, 4 x RJ45 connectors), (WAN connectivity and the site cabling up to the rack's border is not included, no internal rack cabling is included)
2. Network Access to MTS External Test environment, which is hosted in the secondary data centre of MTS (please note: no access to the Disaster Recovery environment of MTS is included).
3. Cross-Link connectivity between the on-net infrastructure of one of the MTS certified Network Service Provider selected by the Co-Location user and the assigned rack(s). This Cross-Link connectivity is provided between the Network Meet-Me Rooms and the MTS Co-Location Room.
4. Monitoring and Support for the connectivity to MTS Markets.

2.5 Access to the site and remote hands service

The MTS Co-Location service also includes on-demand activities as per agreed service levels:

- a) Access to the Co-Location site;
- b) Power on/off;
- c) Remote Hands service;

The MTS Co-Location endeavours to ensure available space and power meets demand. However, at times of high demand, there may be an extended lead time for space and services to be made available. The MTS Co-Location will treat all requests for services on a first come first served basis.

2.6 Telecommunication Service to External Locations

The MTS Co-Location requests that customers liaise with one of the MTS accredited NSPs (Network Service Provider) to determine the best solution provider for their needs, however the customers may select an off-net carrier that must be accredited as an MTS NSP before to be eligible to provide the service.

The carrier area is located apart from other client areas within SIA primary facility site to provide external connectivity.

2.7 Technical Support

MTS will use reasonable efforts at keeping the Co-location Service operational 24 hours a day, 365 days a year, unless faults occur and/or it is necessary to carry out routine or extraordinary repairs that may involve the temporary suspension of the Service, to be previously agreed with the users.

MTS shall nevertheless take reasonable endeavours to restore the Service as quickly as possible in order to minimize the risk of any kind of inconvenience.

The Support Service will be available and reachable during market hours (Monday to Friday, 8:00-18:00 CET), outside market operating hours (Monday to Friday 18:00 – 24:00 CET) and during weekends and Bank Holidays to support planned activity only.

The MTS Co-Location service is committed to providing relevant and equal support services to all customers, as required.

2.8 Pricing

The MTS Co-Location has a standard price list in which the provision of MTS Co-Location Hosting and associated services to Participants are detailed. The MTS Co-Location has published its price list on the MTS public web page.

2.9 IT and Operational Arrangements

The MTS Co-Location Hosting service has detailed operational processes for physical access, for deliveries and collections of equipment and for remote hands services, which are applicable to all customers of the service. The process document is available, under appropriate NDA, to new customers looking to take MTS Co-Location Hosting services.

2.10 Related Products and Services

The table below lists the core and added value services that are available to all customers who subscribe to the MTS Co-Location Hosting service.

Product/Service	High Level Description
Cabinet License (Core Service)	Provision of cabinet space, power, cooling, connectivity to trading and market data systems and support services to accommodate site visits, deliveries and collections.
Communications Management Service (Core Service)	Provision of connectivity service between the Customer cabinet and the MTS Markets.
Remote Hands Service	Provision of physical access to the Co-Location site, requests for power on/off for customer equipment.

2.11 Optional Services

Product/Service	High Level Description
Clock Synch Services	Provision of local precision time services feeds PTP to customers. This optional service includes: <ul style="list-style-type: none"> Fully compliance with the regulatory requirements (MiFID II) Adherence to standards and best practices (use of global navigation satellite system as a time source) Resilience and high availability Traceability to UTC. Reviews of the compliance of the traceability system to be conducted at least once a year.
Cabinet Power supply	Provision of 5 kw power supply in the case the standard 3 kw doesn't cover the client needs.



3. Contact and Further Information

MTS Client Services acts as the main interface with the Customers of the MTS Co-Location. Furthermore, MTS Client Services will receive information from the relevant third parties and the Market Technology Provider and coordinate them, whilst keeping track of any possible open issue.

MTS Client Services can be contacted via:

e-mail: **clientservices@mtsmarkets.com**

by telephone:

London Office	Milan Office
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