New XSD format
for block offers and 15'

TABLE OF CONTENTS

Introduction

From the first of January, GME will manage in the spot market (MPE) block offers and 15' minutes products in adjustment markets (MI).

The following are the impacts of these features on the xml files (namely on the XSD schemas) that GME publishes on its FTPS server (ftps://download.ipex.it) and in the download area of its website, dividing the changes in 2 phases:

- Stage 1: introduction of quarter-hourly bids/offers for the MI, XBID, and MSD;
- Stage 2: introduction of quarter-hourly and half-hourly bids/offers also in the MGP.

1. Stage 1

Stage 1 will involve the results and the public bids/orders of the MI-A1, MI-A2, MI-A3, XBID, and MSD markets.

1.1. Results and Preliminary Information

A **Periodo** (Period) field will be added at the bottom of the .xml files of results and preliminary information, contained in the following directories. This field will show values from 1 to 92 for the last Sunday of March, from 1 to 100 for the last Sunday of October, and from 1 to 96 for all other days.

- MB_PAltriServizi (Other Services)
- MB_PRiservaSecondaria (Secondary Reserve)
- MB_PTotali (Totals)

- MGP_DomandaOfferta[1] (Demand Supply)

- MI-A1_DomandaOfferta[1] (Demand Supply)
- MI-A1_LimitiTransito (Transit Limits)
- MI-A1_Prezzi (Prices)
- MI-A1_Quantita (Quantities)
- MI-A1_Transiti (Transits)
- MI-A1_VincoliGeneralizzati (Generalised Constraints)
- MI-A1_VincoliRampa (Ramp Constraints)

- MI-A2_DomandaOfferta[1] (Demand Supply)
- MI-A2_LimitiTransito (Transit Limits)
- MI-A2_Prezzi (Prices)
- MI-A2_Quantita (Quantities)
- MI-A2_Transiti (Transits)
- MI-A2_VincoliGeneralizzati (Generalised Constraints)
- MI-A2_VincoliRampa (Ramp Constraints)

- MI-A3_DomandaOfferta[1] (Demand Supply)
- MI-A3_LimitiTransito (Transit Limits)
- MI-A3_Prezzi (Prices)
- MI-A3_Quantita (Quantities)
- MI-A3_Transiti (Transits)
- MI-A3_VincoliGeneralizzati (Generalised Constraints)
- MI-A3_VincoliRampa (Ramp Constraints)

- MSD_ServiziDispacciamento (Dispatching Services)

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[1] The layout of the file will be different from the past. See para. 1.4.

- XBID_EsitiParziali1 (Partial Results1)
- XBID_EsitiParziali2 (Partial Results2)
- XBID_EsitiTotali (Total Results)
- XBID_PrezziOrari (Hourly Prices)

1.2. Example of Change of the .Xsd Format of Results

The following is an example of the change to be made to the files that are present in the MI-A1_Prezzi (Prices) folder, with the addition of the **Periodo** (Period) field at the bottom (highlighted in yellow).

```xml
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <xs:schema id="NewDataSet" xmlns=""
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-microsoft-
com:xml-msdata">
    <xs:element name="NewDataSet" msdata:IsDataSet="true"
msdata:UseCurrentLocale="true">
      <xs:complexType>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="Prezzi">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Data" type="xs:string" minOccurs="0" />
                <xs:element name="Mercato" type="xs:string" minOccurs="0" />
                <xs:element name="Ora" type="xs:string" minOccurs="0" />
                <xs:element name="PUN" type="xs:string" minOccurs="0" />
                <xs:element name="NAT" type="xs:string" minOccurs="0" />
                <xs:element name="CALA" type="xs:string" minOccurs="0" />
                <xs:element name="CNOR" type="xs:string" minOccurs="0" />
                <xs:element name="CSUD" type="xs:string" minOccurs="0" />
                <xs:element name="NORD" type="xs:string" minOccurs="0" />
                <xs:element name="SARD" type="xs:string" minOccurs="0" />
                <xs:element name="SICI" type="xs:string" minOccurs="0" />
                <xs:element name="SUD" type="xs:string" minOccurs="0" />
                <xs:element name="AUST" type="xs:string" minOccurs="0" />
                <xs:element name="COAC" type="xs:string" minOccurs="0" />
                <xs:element name="COUP" type="xs:string" minOccurs="0" />
                <xs:element name="CORS" type="xs:string" minOccurs="0" />
                <xs:element name="FRAN" type="xs:string" minOccurs="0" />
                <xs:element name="GREC" type="xs:string" minOccurs="0" />
                <xs:element name="SLOV" type="xs:string" minOccurs="0" />
                <xs:element name="SVIZ" type="xs:string" minOccurs="0" />
                <xs:element name="MALT" type="xs:string" minOccurs="0" />
                <xs:element name="MONT" type="xs:string" minOccurs="0" />
                <xs:element name="XGRE" type="xs:string" minOccurs="0" />
                <xs:element name="BSP" type="xs:string" minOccurs="0" />
                <xs:element name="XAUS" type="xs:string" minOccurs="0" />
                <xs:element name="XFRA" type="xs:string" minOccurs="0" />
                <xs:element name="Periodo" type="xs:string" minOccurs="0" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:choice>
      </xs:complexType>
    </xs:element>
  </xs:schema>
```

1.3. Public Bids/Offers

New fields will be added to the files of public bids/offers to identify any block bids/offers and the MTU of the bid/offer.

From the files of public bids/offers that are present in the folders

- MI-A1_OffertePubbliche (Public Bids/Offers)
- MI-A2_OffertePubbliche
- MI-A3_OffertePubbliche

the **INTERVAL_NO** field will be **removed**.

The following fields will be added:

Field	Type	Description
OFFER_TYPE	String	Type of bid/offer: S simple bid/offer, B block bid/offer
BLOCK_ID	String	Identification code of the block (here, all bids/offers belonging to the same block will have the same value)
PERIOD	Integer	Number of the quarter-hourly interval to which the bid/offer refers
GRANULARITY	String	MTU of the bid/offer: PT15
MINIMUM_ACCEPTANCE_RATIO	decimal	Minimum percentage of acceptance of block bids/offers

In the files of public bids/offers that are present in the directory

- MGP_OffertePubbliche (Public Bids/Offers)

the **INTERVAL_NO** field will be **removed**.

the following fields will be added:

Field	Type	Description
OFFER_TYPE	String	Type of bid/offer: S simple bid/offer, B block bid/offer
BLOCK_ID	String	Identification code of the block (here, all bids/offers belonging to the same block will have the same value)
PERIOD	Integer	Number of the period related to the bid/offer MTU (1-100 for the quarter bids/offers, 1-50 for the half hour bids/offers, 1-25 for the hourly bids/offers)

GRANULARITY[2]	String	MTU of the bid/offer: PT15 (for the quarter ones), PT30 (for the half hour bids/offers) and PT60 (for the houtly bids/offers)
MINIMUM_ACCEPTANCE_RATIO	decimal	Minimum percentage of acceptance of block bids/offers

In the files of public bids/offers that are present in the directory

- MSD_OffertePubbliche (Public Bids/Offers)

the following fields will be added

Field	Type	Description
PERIOD	Entire	Number of the quarter-hourly interval to which the bid/offer refers
GRANULARITY	String	MTU of the bid/offer: PT15

1.4. Demand/Supply Graph

The files published inside the MGP_DomandaOfferta (Demand Supply), MI-A1_DomandaOfferta (Demand Supply), MI-A2_DomandaOfferta (Demand Supply), and MI-A3_DomandaOfferta (Demand Supply) folders will have a completely new format with respect to the past; the following table gives a description of the new format.

Field	Type	Description
DATA (DATE)	Entire	Flow date of bids/offers
SCOPO (PURPOSE)	String	Side of bids/offers (BID=purchase, OFF=sale)
MTU	Entire	Market Time Unit of bids/offers[3]
INTERVALLO (INTERVAL)	Entire	Applicable period to which bids/offers refer
ZONA_MERCATO (MARKET ZONE)	String	Market zone in which the zone is located
QUANTITA_OFFERTA (OFFERED QUANTITIES)	Numerical	Sum of quantities offered by offered price level
QUANTITA_ACCETTATA (ACCEPTED QUANTITIES)	Numerical	Sum of quantities accepted by offered price level

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[2] From 1st of January value will be always PT60 until the introduction of 15 and 30 minutes offers
[3] The MTU can have the following values: 15, 30, and 60.

PREZZO_OFFERTO (OFFERED PRICE)	Numerical	Offered price
PREZZO_ACCETTATO (ACCEPTED PRICE)	Numerical	ACCEPTED price
TIPO_OFFERTA (TYPE OF BID/OFFER)	String	Type of bid/offer, simple or block bid/offer

2. Stage 2

In Stage 2, also the MGP market will have quarter-hourly results, thereby enabling participants to submit 15-minute, 30-minute, or 60-minute bids/offers.

2.1. Results and Preliminary Information

The **Periodo** (Period) field will be added at the bottom of the .xml files of results and preliminary information, contained in the following directories. The field will show values from 1 to 92 for the last Sunday of March, from 1 to 100 for the last Sunday of October, and from 1 to 96 for all other days.

- MGP_Fabbisogno (Demand)
- MGP_LimitiTransito (Transit Limits)
- MGP_Liquidita (Liquidity)
- MGP_MarketCoupling
- MGP_Prezzi (Prices)
- MGP_PrezziConvenzionali (Conventional Prices)
- MGP_Quantita (Quantities)
- MGP_StimeFabbisogno (Expected demand)
- MGP_Transiti (Transits)
- MGP_VincoliGeneralizzati (Generalised Constraints)
- MGP_VincoliRampa (Ramp Constraints)