# Implementation Guide

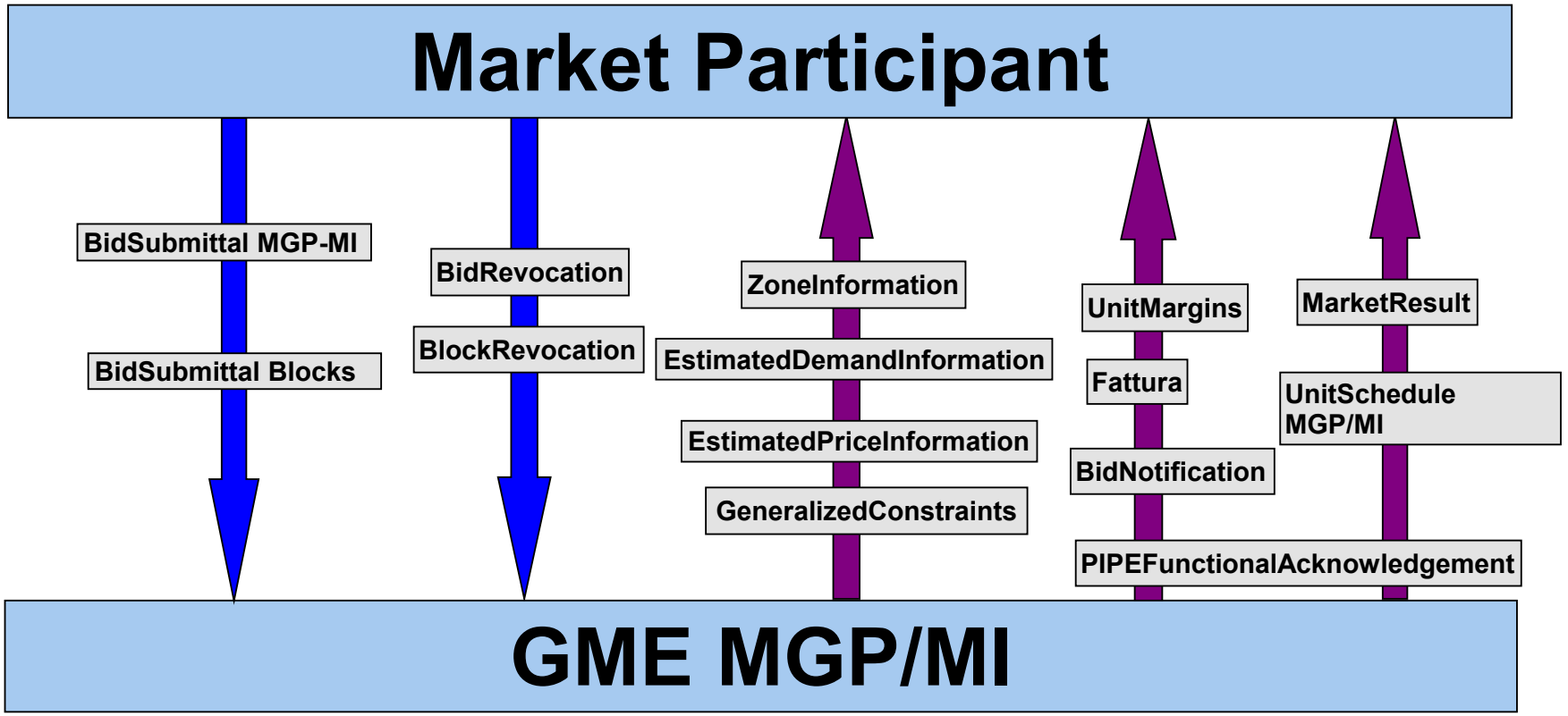
## GME Electricity Market Transaction Set

## Market Participant Transactions

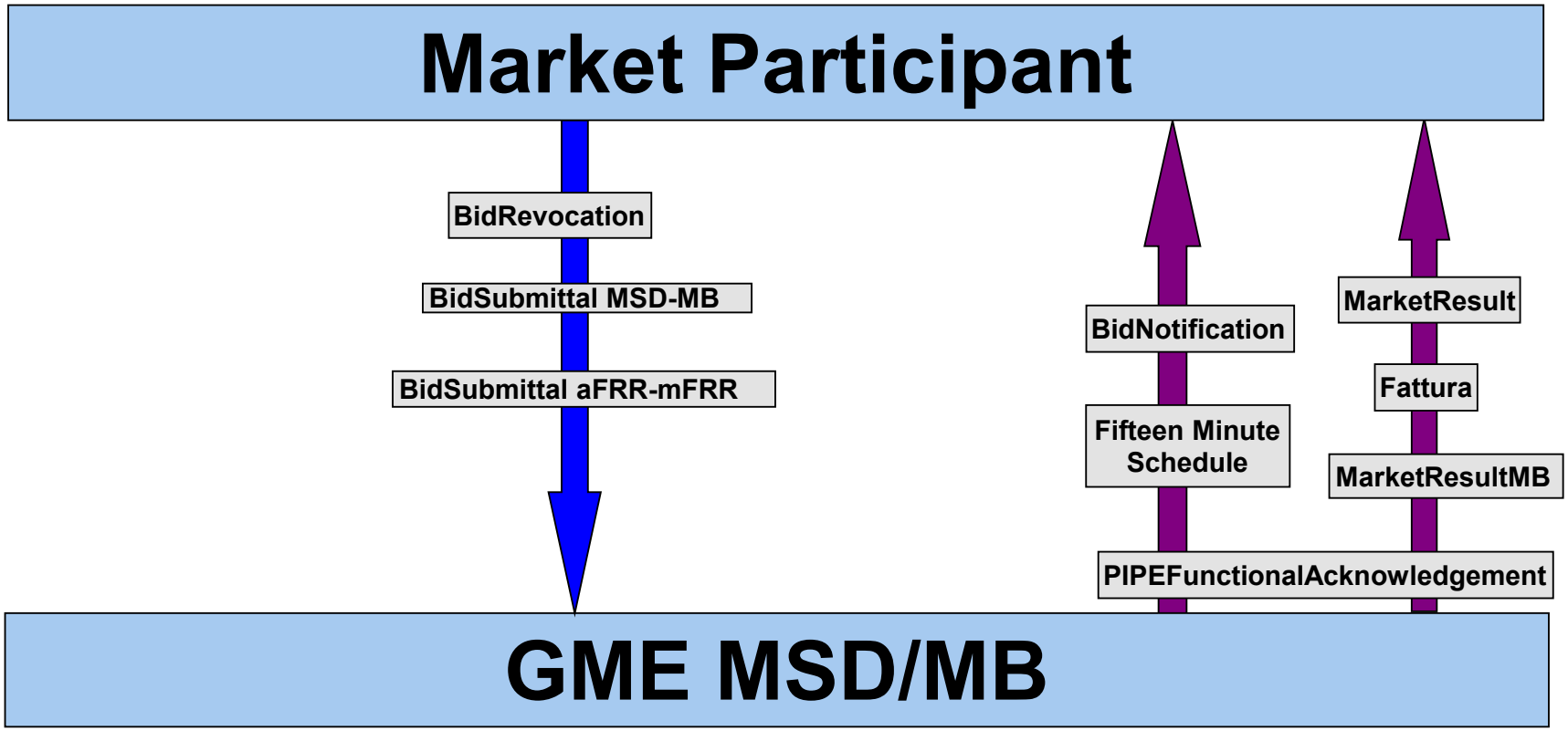
Version 5.4

25 novembre 2026

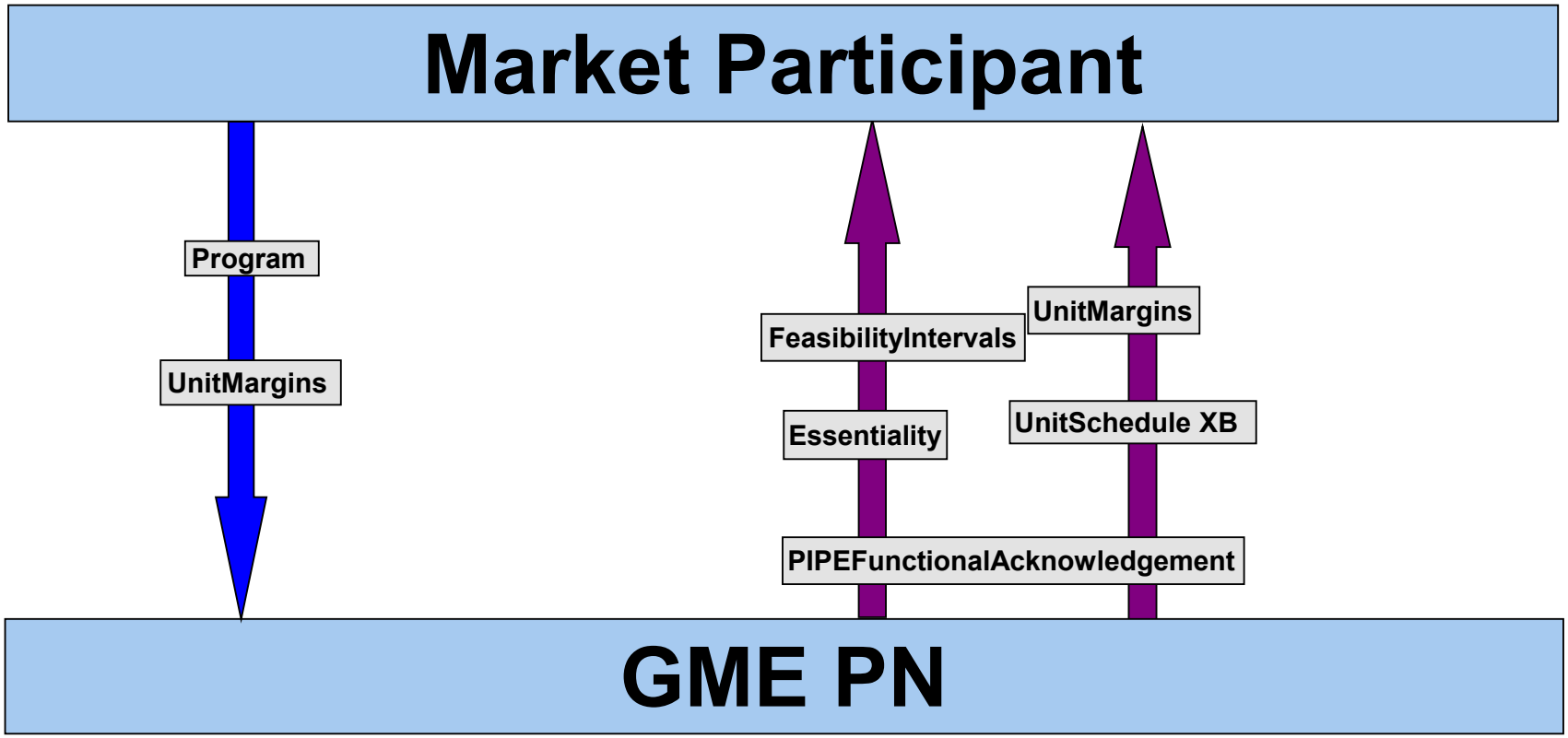
# MP Transaction Flow MGP



# MP Transaction Flow MSD



# MP Transaction Flow PN



# Legend

| | Description | Possible Values |
|---|---|---|
| **Element / Attribute Name** | The name of the Element or Attribute used in the XML file | N/A |
| **Attribute / Element** | Whether a field is an Attribute or an Element within the XML document | A = Attribute |
| **Valid Information in Field (enumeration)** | Validation rules for element or attribute value, including list of possible values in enumeration | |
| **Data Type** | Describes the type of data expected in the field | A/N= AlphaNumeric (Field allows for alphabetic values, numeric values, as well as any combination of alphabetic and numeric values) |
| | | N= Numeric (integers only) |
| | | N/A= Not Applicable |
| | | Enumerated= The only valid values are listed. |
| | | Date= Date format used. |
| | | Decimal= Illustrates the position of the decimal point in reference to the overall length of the field. |
| **Occurances Min/Max** | Describes the expected number of times that the attribute or element can occur within the XML document | n/x where n= the minimum number of occurrances allowed for the element or attribute and x = the maximum number of occurrances for the element or attribute; or a specification directly of the number of occurrances within another structure, such as "1 per PIPEDocument". |
| **Field Length** | The expected length of the field | either a number which represents the required number of characters, or max=nn, where nn is the maximum number of digits or characters allowed for the field |
| | | N/A= Not Applicable |
| **XML Names** | The name of the Element or Attribute as it will appear in the XML file | N/A |
| **Field Display Names** | The name of the Element or Attribute as it will appear on the transaction display form within the system | N/A |
| **Definition** | The explanation of the Element or Attribute | N/A |

Version 5.4

# BidSubmittal MGP-MI Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | Market Participant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 6000 | N/A | Indicates the beginning of a PIP transaction. |
| BidSubmittal | E | (see BidSubmittal data structure) | N/A | 1 /1 | N/A | A PIPTransaction submitted by Market Participants to GME which includes the information regarding a bid or offer in the Electricity Markets |
| **BidSubmittal** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction submitted by Market Participants to GME which includes the information regarding a bid or offer in the Electricity Markets |
| MarketParticipantNumber | A | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| BalancedReferenceNumber | A | N/A. Allowed only in the MI markets. | A/N | 0/1 | max=30 | The alphanumeric code identifying the bid or offer as part of a Balanced Offer set |
| Purpose | A | Buy or Sell | A/N | 1/1 | 4 | Indication whether the purpose of a bid or offer is to "Buy" or "Sell" |

# BidSubmittal MGP-MI Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| PredefinedOffer | A | Yes or No. | A/N | 1/1 for MGP<br>0/0 for Mix | 3 | Indication whether the bid or offer is Predefined (for MGP, MSD and aFRR) |
| ReplacementIndicator | A | Yes or No | A/N | 1/1 | 3 | Indication whether the bid or offer should replace any previously submitted bids or offers for the same Market Participant, Unit, Date, and Period. A value of "No" is used to insert multiple offers. |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Period | E | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| TimeResolution | E | PT15<br>PT30 (only possible for MGP)<br>PT60 (only possible for MGP) | A/N | 1/1 for MGP<br>0/1 for Mix | 4 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| BidQuantity | E | Valid decimal value. | Decimal=9999,9 | 1/1 | max=8 | The quantity in MW of the bid or offer which has been offered by the Market Participant |
| UnitOfMeasure | A | MW (valid for MGP and also for MI) | A/N | 1/1 | N/A | The unit of measure which describes the Quantity |
| EnergyPrice | E | Valid currency value | Decimal=9999,99 | 1/1 | max=7 | The price at which the Energy portion of the offer (MWh) was originally made |

# BidSubmittal MSD-MB Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | Market Participant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 10000 | N/A | Indicates the beginning of a PIP transaction. |
| BidSubmittal | E | (see BidSubmittal data structure) | N/A | 1 /1 | N/A | A PIPTransaction submitted by Market Participants to GME which includes the information regarding a bid or offer in the Electricity Markets |
| **BidSubmittal** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction submitted by Market Participants to GME which includes the information regarding a bid or offer in the Electricity Markets |
| MarketParticipantNumber | A | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| PredefinedOffer | A | Yes or No. For MB only No is allowed | A/N | 1/1 | 3 | Indication whether the bid or offer is Predefined (for MGP, MSD and aFRR) |
| RifStand | A | MI1 | A/N | 0/1 for MSD<br>0/0 for MBx | 3 | Starting point for MSD offers (only to indicate MI1): possible to submit only for current offers, not for predefined |

# BidSubmittal MSD-MB Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Market | E | MSD1 (Dispatching Service Market)<br>MBh (Balancing Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Period | E | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| Offer | E | (see Offer data structure) | N/A | 1 /1 | N/A | Complex element that has to be filled for each step of a block for MGP or MIx or for MSD, MBh or aFRR offer |
| | | | | | | |
| **Offer** | | N/A | N/A | for MSD 12 for each BidSubmittal<br>for MBx 14 for each BidSubmittal | N/A | Complex element that has to be filled for each step of a block for MGP or MIx or for MSD, MBh or aFRR offer |
| PresentedOffer | A | Yes or No. | A/N | 1/1 | 3 | Indication whether the bid or offer has to be considered for MSD or MBh markets |
| Purpose | A | Buy or Sell | A/N | 1/1 | 4 | Indication whether the purpose of a bid or offer is to "Buy" or "Sell" |
| Scope | A | RS (Secondary Reserve)<br>AS (Minimo or Spegimento)<br>GR1 (Gradino 1)<br>GR2 (Gradino 2)<br>GR3 (Gradino 3)<br>GR4 (Gradino 4 - only for MBx)<br>AC<br>CA | A/N | 1/1 | N/A | Scope of MSD and MBh Offers; for AC an CA Scope only Purpose='Sell' is accepted<br>For aFRR: the step of the offer: GR1 |
| BidQuantity | E | Valid decimal value. | Decimal=9999,999 | 1/1 | max=8 | The quantity in MW of the bid or offer which has been offered by the Market Participant |
| UnitOfMeasure | A | MW | A/N | 1/1 | N/A | The unit of measure which describes the Quantity |
| EnergyPrice | E | Valid currency value | Decimal=9999999,99 | 1/1 | max=7 | The price at which the Energy portion of the offer (MWh) was originally made |
| SourceOffer | E | SPOT (Spot Market)<br>UESS (Essential Unit)<br>CONTR (Contract) | | 1/1 | | Indicates if the MSD or MBh offers are for Spot, or represents an offer for essential unit (UESS) or is an offer to comply a contract (CONTR) |
| ContractId | E | Valid integer value. | Decimal=9999 | 0/1 (presented only if SourceOffer =CONTR) | | Identification of the contract to which the offer refers |

# BidSubmittal Blocks Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | Market Participant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 6000 | N/A | Indicates the beginning of a PIP transaction. |
| BidSubmittalBlock | E | (see BidSubmittal data structure) | N/A | 1 /1 | N/A | #N/D |
| **BidSubmittalBlock** | | N/A | N/A | 1 per PIPTransaction | N/A | #N/D |
| MarketParticipantNumber | A | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| Purpose | A | Buy or Sell | A/N | 1/1 | 4 | Indication whether the purpose of a bid or offer is to "Buy" or "Sell" |
| ReplacementIndicator | A | Yes or No | A/N | 1/1 | 3 | Indication whether the bid or offer should replace any previously submitted bids or offers for the same Market Participant, Unit, Date, and Period. A value of "No" is used to insert multiple offers. |

# BidSubmittal Blocks Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| EnergyPrice | E | Valid currency value | Decimal=9999,99 | 1/1 | max=7 | The price at which the Energy portion of the offer (MWh) was originally made |
| MinimumAcceptanceRatio | E | Value between 0 and 1 with max 6 decimal digits | Decimal=9,999999 | 1/1 | max=8 | Minimum ratio that has to be accepted for a block offer |
| TimeResolution | E | PT15<br>PT30 (only possible for MGP)<br>PT60 (only possible for MGP) | A/N | 1/1 for MGP<br>0/1 for Mix | 4 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |
| Offers | E | (see Offers data structure) | A/N | 1/1 | | Complex element that has to be filled for a block for MGP or Mix |
| | | | | | | |
| **Offers** | | N/A | N/A | 1/1 | N/A | Complex element that has to be filled for a block for MGP or Mix |
| Offer | E | (see Offer data structure) | A/N | 1/100 | | Complex element that has to be filled for each step of a block for MGP or MIx or for MSD, MBh or aFRR offer |
| Period | A | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| Qty | A | Valid decimal value. | Decimal=9999,9 | 1/1 | max=8 | The quantity in MW indicated in the blocks for MGP/Mix |

# BidSubmittal aFRR/mFRR Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | Market Participant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 10000 | N/A | Indicates the beginning of a PIP transaction. |
| BidSubmittal | E | (see BidSubmittal data structure) | N/A | 1 /1 | N/A | A PIPTransaction submitted by Market Participants to GME which includes the information regarding a bid or offer in the Electricity Markets |
| **BidSubmittal** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction submitted by Market Participants to GME which includes the information regarding a bid or offer in the Electricity Markets |
| MarketParticipantNumber | A | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| PredefinedOffer | A | Yes or No. | A/N | 1/1 for MGP<br>0/0 for Mix | 3 | Indication whether the bid or offer is Predefined (for MGP, MSD and aFRR) |
| Market | E | AFRR (automatic Frequency Restoration Reserve)<br>MFRR (manual Frequency Restoration Reserve) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |

# BidSubmittal aFRR/mFRR Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Period | E | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| BuyOffers | E | (see BuyOffer data structure) | N/A | 1/1 | N/A | Element containing buying price for aFRR market |
| SellOffers | E | (see SellOffer data structure) | N/A | 1/1 | N/A | Element containing selling price for aFRR market |
| | | | | | | |
| **BuyOffers** | | N/A | N/A | 1/1 | N/A | Element containing buying price for aFRR market |
| Offer | E | (see Offer data structure) | N/A | 1/1 | N/A | Complex element that has to be filled for each step of a block for MGP or MIx or for MSD, MBh or aFRR offer |
| | | | | | | |
| **SellOffers** | | N/A | N/A | 1/1 | N/A | Element containing selling price for aFRR market |
| Offer | E | (see Offer data structure) | N/A | 1/1 | N/A | Complex element that has to be filled for each step of a block for MGP or MIx or for MSD, MBh or aFRR offer |
| | | | | | | |
| **Offer** | | N/A | N/A | 1/1 | N/A | Complex element that has to be filled for each step of a block for MGP or MIx or for MSD, MBh or aFRR offer |
| Price | A | Valid currency value | Decimal=9999,99 | 1/1 | max=7 | Price indicated in aFRR market |
| Scope | A | GR1 | A/N | 1/1 for AFRR<br>0/0 for MFRR | 3 | Scope of MSD and MBh Offers; for AC an CA Scope only<br>Purpose='Sell' is accepted<br>For aFRR: the step of the offer: GR1 |

# UnitMargins Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 6000 | N/A | Indicates the beginning of a PIP transaction. |
| UnitMargins | E | (see UnitMargins data structure) | N/A | 1/1 | N/A | Contains tags that define the Margins Up and Down for a Unit. Information sent by a Reference Market Participant or TERNA to GME. |
| **UnitMargins** | | N/A | N/A | 1 per PIPTransaction | N/A | Contains tags that define the Margins Up and Down for a Unit. Information sent by a Reference Market Participant or TERNA to GME. |
| MarketParticipantNumber | A | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Market | E | MGP (Day Ahead Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| UnitDetail | E | (see UnitDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a production or consumption Unit or Point of Offer |

# UnitMargins Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **UnitDetail** | | N/A | N/A | 1 or more per UnitMargins | N/A | Detail information referring to a production or consumption Unit or Point of Offer |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| Period | E | 92 through 100 | N | 92/100 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| MarginUp | A | A valid number | Decimal=9999,9 | 1/1 | max=8 | Also referred to as Step-Up Margin. The maximum residual capacity increase which can be made available by a generating unit or the maximum residual capacity decrease<br>which can be made available by a consumption unit. |
| MarginDown | A | A valid number | Decimal=9999,9 | 1/1 | max=8 | Also referred to as Step-Down Margin. The maximum residual capacity decrease which can be made available by a generating unit or the maximum residual capacity increase<br>which can be made available by a consumption unit. |

# BidRevocation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | Market Participant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 6000 | N/A | Indicates the beginning of a PIP transaction. |
| BidRevocation | E | (see BidRevocation data structure) | N/A | 1 /1 | N/A | A PIPTransaction submitted by Market Participants to GME which allow the MP to revoke an existing offer |
| **BidRevocation** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction submitted by Market Participants to GME which allow the MP to revoke an existing offer |
| PredefinedOffer | A | Yes or No. "Yes" is allowed only in the MGP Market. | A/N | 1/1 | 3 | Indication whether the bid or offer is Predefined (for MGP, MSD and aFRR) |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market)<br>MSD1 (Dispatching Service Market)<br>MBh (Balancing Market)<br>MRR (Replacemen Reserve Market)<br>AFRR (automatic Frequency Restoration Reserve)<br>MFRR (manual Frequency Restoration Reserve) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | | YYYYMMDD | 1/1 | 8 | The date of Power Flow |

# BidRevocation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Period | E | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| TImeResolution | E | PT15<br>PT30 (only possible for MGP)<br>PT60 (only possible for MGP) | A/N | 1/1 for MGP<br>0/1 for Mix | 4 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |
| MarketParticipantNumber | E | N/A | A/N | 1/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| MarketParticipantReferenceNumber | E | N/A | A/N | 0/1 | 30 | The unique identifier for the Market Participant as recorded in the GME Market Participant Register who is the Reference Market Participant for the Unit. In the Bid Revocation transaction represents the alphanumeric code optionally assigned to a the transaction by the Market Participant for the Market Participant's own use. |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |

# BlockRevocation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | Market Participant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document, max 6000 | N/A | Indicates the beginning of a PIP transaction. |
| BidRevocationBlock | E | (see BidRevocationBlock data structure) | N/A | 1 /1 | N/A | A PIPTransaction submitted by Market Participants to GME which allow the MP to revoke a block offer on MGP or Mix |
| **BidRevocationBlock** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction submitted by Market Participants to GME which allow the MP to revoke a block offer on MGP or Mix |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| TimeResolution | E | PT15<br>PT30 (only possible for MGP)<br>PT60 (only possible for MGP) | A/N | 1/1 for MGP<br>0/1 for Mix | 4 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |

# BlockRevocation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| MarketParticipantNumber | E | N/A | A/N | 1/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| MarketParticipantReferenceNumber | E | N/A | A/N | 0/1 | 30 | The unique identifier for the Market Participant as recorded in the GME Market Participant Register who is the Reference Market Participant for the Unit. In the Bid Revocation transaction represents the alphanumeric code optionally assigned to a the transaction by the Market Participant for the Market Participant's own use. |

# Essentiality Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 1/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| Essentiality | E | (see Essentiality data structure) | N/A | 1 /1 | N/A | Contains tags that define the essentiality periods for a Unit as set by Terna |
| **Essentiality** | | N/A | N/A | 1 per PIPTransaction | N/A | Contains tags that define the essentiality periods for a Unit as set by Terna |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Market | E | MGP | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| EssentialityIntervals | E | (see UnitFeasibilityIntervals data structure) | N/A | 1/1 | N/A | Essentiality periods for units |
| **EssentialityIntervals** | | N/A | N/A | 1 per FeasibilityIntervals | N/A | Essentiality periods for units |
| EssentialityInterval | E | (see EssentialityInterval data structure) | N/A | 1/1 | N/A | Essentiality periods for a single unit |

# Essentiality Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| | | | | | | |
| **EssentialityInterval** | | N/A | N/A | 1 per UnitFeasibilityIntervals | N/A | Essentiality periods for a single unit |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| Period | E | 1/100 (always related to PT15) | N | 1/1 | | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| V | A | 1 through 100 | N | 1/1 | max=2 | The relevant period in the Energy Flow day, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00) |

# FeasibilityIntervals Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 1/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| OriginalReferenceNumber | A | N/A | A/N | 1/1 | max=30 | Attribute that references the original transaction. |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| FeasibilityIntervals | E | (see FeasibilityIntervals data structure) | N/A | 1 /1 | N/A | Contains tags that define the Feasibility Interval for a Unit as set by Terna |
| **FeasibilityIntervals** | | N/A | N/A | 1 per PIPTransaction | N/A | Contains tags that define the Feasibility Interval for a Unit as set by Terna |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |

# FeasibilityIntervals Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Market | E | MGP (outcome of FCR market)<br>MSD1 (Dispatching Service Market)<br>MSD2 (Dispatching Service Market - second session)<br>MSD3 (Dispatching Service Market - third session)<br>MSD4 (Dispatching Service Market - forth session)<br>MSD5 (Dispatching Service Market - fifth session)<br>MSD6 (Dispatching Service Market - sixth session) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| UnitFeasibilityIntervals | E | (see UnitFeasibilityIntervals data structure) | N/A | 1/1 | N/A | Feasibility Interval for units |
| | | | | | | |
| **UnitFeasibilityIntervals** | | N/A | N/A | 1 per FeasibilityIntervals | N/A | Feasibility Interval for units |
| UnitFeasibilityInterval | E | (see UnitFeasibilityInterval data structure) | N/A | 1/1 | N/A | Feasibility Interval for a single unit |
| | | | | | | |
| **UnitFeasibilityInterval** | | N/A | N/A | 1 per UnitFeasibilityIntervals | N/A | Feasibility Interval for a single unit |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| Period | E | 1/100 (always related to PT15) | N | 1/1 | | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| FMax | A | A valid number | Decimal=9999,999 | 1/1 | max=8 | Maximum value in the feasibility interval: the unit should be at maximum at this power |
| FMin | A | A valid number | Decimal=9999,999 | 1/1 | max=8 | Minimum value in the feasibility interval: the unit should be at least at this powerl: can be negative for pumping units |
| V | A | 1 through 96 | N | 1/1 | max=2 | The relevant period in the Energy Flow day, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00) |

# FifteenMinuteSchedule Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1/1 | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 1/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 1/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| FifteenMinuteSchedule | E | (see FifteenMinuteSchedules data structure) | N/A | 1/1 | N/A | A PIPTransaction used by the system to send the schedule from TERNA to MPs |
| **FifteenMinuteSchedule** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction used by the system to send the schedule from TERNA to MPs |
| MarketParticipantNumber | A | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| Type | A | Original<br>Corrected | A/N | 1/1 | N/A | In Unit Schedule transaction indicates the type of unit schedule: if it's after MGP, MIn, MSD or Xbid. In FifteenMinutesSchedule transaction indicates if it's original or it has been corrected by the system. In MarketResultMB transaction indicates if the results are Preliminary or Definitive |
| Market | E | MSD1 (Dispatching Service Market)<br>MSD2 (Dispatching Service Market - second session)<br>MSD3 (Dispatching Service Market - third session)<br>MSD4 (Dispatching Service Market - forth session)<br>MSD5 (Dispatching Service Market - fifth session)<br>MSD6 (Dispatching Service Market - sixth session) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |

# FifteenMinuteSchedule Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| HourDetail | E | (see HourDetail data structure) | A/N | 23/25 | | The production/consumption plan detail in an hour divided by quarters |
| | | | | | | |
| **HourDetail** | | N/A | N/A | 1 per PIPTransaction | | The production/consumption plan detail in an hour divided by quarters |
| Hour | E | 1 through 25 | N | 1/1 | max=2 | The relevant period in the Power Flow day, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00). |
| Quantity | E | N/A | Decimal=9999,999 | 4/4 | max=8 | In Unit Schedule transaction is the power that has been accepted/nominated for that specific interval. In FifteenMinuteSchedule represent the power generated/consumpted in a quarter. |
| QuarterInterval | A | 1 through 4 | N | 1/1 | 1 | The quarter in an hour: from 1 to 4 |
| Minute | A | 1 through 15 | N | 0/1 | max=2 | The precise minute inside the quarter interval |

# BidNotification Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 1/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| OriginalReferenceNumber | A | N/A | A/N | 1/1 | max=30 | Attribute that references the original transaction. |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| BidNotification | E | (see BidNotification data structure) | N/A | 1 /1 | N/A | A PIPTransaction made available by GME to Market Participants which includes notification of Acceptance or Rejection of a bid or offer in the Electricity Markets |
| **BidNotification** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction made available by GME to Market Participants which includes notification of Acceptance or Rejection of a bid or offer in the Electricity Markets |
| Status | A | Accept or Reject | N/A | 1/1 | N/A | The status (Accept, Reject) of a transaction |
| Purpose | A | Buy or Sell | A/N | 1/1 | 4 | Indication whether the purpose of a bid or offer is to "Buy" or "Sell" |

# BidNotification Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Scope | A | RS (Secondary Reserve)<br>AS (Minimo or Spegimento)<br>GR1 (Gradino 1)<br>GR2 (Gradino 2)<br>GR3 (Gradino 3)<br>GR4 (Gradino 4 - only for MBx)<br>AC (Accensione)<br>CA (Cambio assetto) | A/N | 1/1 for MSD and MB markets<br>0/0 for MGP and MI markets | 3 | Scope of MSD and MBh Offers; for AC an CA Scope only Purpose='Sell' is accepted<br>For aFRR: the step of the offer: GR1 |
| BAType | A | Rev<br>Norev<br>Netting | A/N | 0/1 (present only for MB market) | 3 | Attribute present only for MB that indicates if the quantity is accepted in MB market ("Norev"), or a revocation from MSD ("Rev") or a netting in MB market between different services ("Netting") |
| Quarter | A | 1 through 4 | N | 0/1 (present only for MB market) | 3 | The quarter in an hour: from 1 to 4 |
| PredefinedOffer | A | Yes or No | A/N | 1/1 for Status=Reject<br>0/0 for Status=Accept | 3 | Indication whether the bid or offer is Predefined (for MGP, MSD and aFRR) |
| BalancedReferenceNumber | A | N/A | A/N | 0/1 | max=30 | The alphanumeric code identifying the bid or offer as part of a Balanced Offer set |
| PartialAcceptedQuantityIndicator | A | Yes or No | A/N | 1/1 for Status = Accept<br>0/0 for status = Reject | 3 | Indication whether a bid or offer has been accepted for less than the original quantity |
| RejectInformation | E | (See RejectInformation data structure) | N/A | 1/1 for Status=Reject<br>0/0 for Status=Accept | N/A | Contains tags that define the reasons for rejection of the transaction. |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market)<br>MSD1 (Dispatching Service Market)<br>MSD2 (Dispatching Service Market - second session)<br>MSD3 (Dispatching Service Market - third session)<br>MSD4 (Dispatching Service Market - forth session)<br>MSD5 (Dispatching Service Market - fifth session)<br>MSD6 (Dispatching Service Market - sixth session)<br>MB (Balancing Market)<br>AFRR (automatic Frequency Restoration Reserve)<br>MFRR (manual Frequency Restoration Reserve) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| MarketParticipantNumber | E | N/A | A/N | 0/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| GMEReferenceNumber | E | N/A | A/N | 1/1 | 30 | A numeric code, assigned by the GME system, uniquely identifying a bid or offer. |
| VerifiedSourceOffer | E | SPOT (Spot Market)<br>UESS (Essential Unit)<br>CONTR (Contract)<br>MSD (used in MB for offer coming from MSD) | | 0/1 present only for MSD and MB | | Indicates for MSD or MBx market, if Terna use the offers as Spot, or for essential unit (UESS) or to comply a contract (CONTR) |
| ContractId | E | Valid integer value. | Decimal=9999 | 0/1 present only for MSD and MB | | Identification of the contract to which the offer refers |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |

# BidNotification Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Period | E | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| TimeResolution | E | PT15<br>PT30<br>PT60 | N | 1/1 | 4 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| BidQuantity | E | Valid decimal value. | Decimal=9999,999 | 1/1 for Status=Reject<br>0/0 for Status=Accept | max=8 | The quantity in MW of the bid or offer which has been offered by the Market Participant |
| ReservedQuantity | E | Valid decimal value. | Decimal=9999,999 | 1/1 for MSD market<br>0/0 for MGP and MI and MB | max=8 | Quantity reserved by Terna in MSD and MB markets |
| UnitOfMeasure | A | MW | A/N | 0 if BidQuantity is not present<br>1 if BidQuantity is present | N/A | The unit of measure which describes the Quantity |
| EnergyPrice | E | Valid currency value | Decimal=9999,99 | 0/1 for Status=Reject<br>0/0 for Status=Accept | max=7 | The price at which the Energy portion of the offer (MWh) was originally made |
| AwardedQuantity | E | Valid decimal value. | Decimal=9999,999 | 1/1 for Status=Accept<br>0/0 for Status=Reject | max=8 | The quantity of the bid or offer which has been accepted by the Market |
| UnitOfMeasure | A | MW | A/N | 0 if AwardedQuantity is not present<br>1 if AwardedQuantity is present | N/A | The unit of measure which describes the Quantity |
| AwardedPrice | E | Valid currency value | Decimal=9999,999999 | 1/1 for Status=Accept<br>0/0 for Status=Reject | max=7 | The price at which the Awarded Quantity was accepted by the Market |
| AwardedValue | E | Valid currency value | Decimal=99999999,99 | 1/1 for Status=Accept<br>0/0 for Status=Reject | max=11 | The value (in Euro) arrived at by multiplying the Awarded Quantity by the Awarded Price |
| BlockId | E | N/A | A/N | 0/1 | max=36 | Block Identification Code as given in Functional Acknowledgment |
| | | | | | | |
| **RejectInformation** | | N/A | N/A | 0 or more RejectInformation per PIPEFunctionalAcknowledgement | N/A | Contains tags that define the reasons for rejection of the transaction. |
| Reason | E | N/A | A/N | 1/1 | max=30 | A short description of the rejection of the transaction |
| ReasonText | E | N/A | A/N | 0/1 | max=250 | The text explanation for the rejection of the transaction |

# Fattura Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| Fattura | E | (see Fattura data structure) | N/A | 1/1 | N/A | PIPTransaction containing the Daily Settlement related to one single account |
| **Fattura** | | N/A | N/A | 1 per PIPTransaction | N/A | PIPTransaction containing the Daily Settlement related to one single account |
| DOCUMENT | E | F<br>C<br>CC | N/A | 1/1 | max=2 | Document type: Invoice, comunication, copy of comunication |
| DOCUMENT_ID | E | A valid number | N | 1/1 | max=15 | Document ID (same as ABP_ID) |
| HeaderFattura | E | (see HeaderFattura data structure) | N/A | 1/1 | N/A | Header of the invoice |
| Summary1 | E | (see Summary1 data structure) | N/A | 1 or more | N/A | Amount divided by tax code |
| Summary2 | E | (see Summary2 data structure) | N/A | 1 or more | N/A | Amount divided by tax code and by market |
| Summary3 | E | (see Summary3 data structure) | N/A | 0 or more | N/A | Amount divided by tax code and by market and by type of unit (Production, Consumption, Both) |
| ElencoLinee | E | (see ElencoLinee data structure) | N/A | 1 or more | N/A | Each lin of a Daily Invoice |
| **HeaderFattura** | | N/A | N/A | 1 per PIPTransaction | | #N/D |
| ABP_ID | E | A valid number | N | 1/1 | max=15 | Identifier of the ABP Daily Invoice |
| ACCOUNT_NUMBER | E | A valid number | N | 1/1 | max=15 | Account number to which the Daily Invoice is related |
| DOCUMENT_DATE | E | Valid date | YYYYMMDD | 1/1 | 8 | Date of the document |
| DOCUMENT_TYPE | E | ME<br>MS<br>BC | N/A | 1/1 | max=2 | Type of document: energy market, reserve markets, bilateral contract trnsmission cost, energy bought for bilateral contracts, congestion rent, fee |

# Fattura Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| TRX_TYPE | E | BUY<br>SEL<br>FEE | N/A | 1/1 | max=3 | Type of transaction: Buy, Sell or Fee |
| PERIOD | E | | MMYYY | 1/1 | max=20 | Period to which the Daily Invoice is referred to |
| TAX_REFERENCE_FROM | E | N/A | | 1/1 | max=16 | Partita IVA of the seller (the one who emits the invoice) |
| OP_NAME_FROM | E | N/A | N/A | 1/1 | max=50 | Seller company name |
| SDC_CODE_FROM | E | A Valid Market Partipant ID in the GME System | N/A | 1/1 | max=16 | Seller SDC code |
| STREET_FROM | E | N/A | N/A | 0/1 | max=35 | Seller Address |
| CITY_FROM | E | N/A | N/A | 0/1 | max=35 | Seller City |
| PROVINCE_FROM | E | N/A | N/A | 0/1 | max=2 | Seller Province |
| ZIPCODE_FROM | E | N/A | N/A | 0/1 | max=10 | Seller ZIP Code |
| COUNTRY_FROM | E | N/A | N/A | 0/1 | max=3 | Seller country |
| LEGAL_NOTES_FROM | E | N/A | N/A | 0/1 | max=150 | |
| PHONE_FROM | E | N/A | N/A | 0/1 | max=20 | Seller phone |
| FAX_FROM | E | N/A | N/A | 0/1 | max=20 | Seller fax |
| EMAIL_FROM | E | N/A | N/A | 0/1 | max=20 | Seller e-mail |
| DOCUMENT_OBJECT | E | N/A | N/A | 1/1 | max=1000 | Brief description of the invoice content |
| TAX_INFO | E | N/A | N/A | 1/1 | max=1000 | Legal references to the VAT code applied |
| PAYMENT_INFO | E | N/A | N/A | 1/1 | max=500 | References to the rules and instruction about the payment rules |
| INVOICE_NOTE_1 | E | N/A | N/A | 1/1 | max=1000 | Miscellaneous |
| TAX_REFERENCE_TO | E | N/A | N/A | 1/1 | max=16 | Partita IVA of the buyuer (the one who receives the invoice) |
| OP_NAME_TO | E | N/A | N/A | 1/1 | max=50 | Buyer company name |
| SDC_CODE_TO | E | A Valid Market Partipant ID in the GME System | N/A | 1/1 | max=16 | Buyer SDC code |
| STREET_TO | E | N/A | N/A | 0/1 | max=35 | Buyer Address |
| CITY_TO | E | N/A | N/A | 0/1 | max=35 | Buyer City |
| PROVINCE_TO | E | N/A | N/A | 0/1 | max=2 | Buyer Province |
| ZIPCODE_TO | E | N/A | N/A | 0/1 | max=10 | Buyer ZIP Code |
| COUNTRY_TO | E | N/A | N/A | 0/1 | max=3 | Buyer country |
| STREET_TO_2 | E | N/A | N/A | 0/1 | max=35 | Alternate buyer Address |
| CITY_TO_2 | E | N/A | N/A | 0/1 | max=35 | Alternate buyer City |
| PROVINCE_TO_2 | E | N/A | N/A | 0/1 | max=2 | Alternate buyer Province |
| ZIPCODE_TO_2 | E | N/A | N/A | 0/1 | max=10 | Alternate buyer ZIP Code |
| COUNTRY_TO_2 | E | N/A | N/A | 0/1 | max=3 | Alternate buyer country |
| AMOUNT | E | Valid number | Decimal=9999,99 | 1/1 | max=18 | Total net amount |
| TAX_AMOUNT | E | Valid number | Decimal=9999,99 | 1/1 | max=18 | Total tax amount |
| TOTAL_AMOUNT | E | Valid number | Decimal=9999,99 | 1/1 | max=18 | Total amount (net + tax) |
| QUANTITY | E | Valid number | Decimal=9999,999 | 1/1 | max=18 | Total quantity in the Daily Invoice |
| INVOICE_NUMBER | E | N/A | N/A | 0/1 | max=16 | Invoice number |
| INVOICE_DATE | E | Valid date | YYYYMMDD | 0/1 | 8 | Invoice date |
| INVOICE_DUE_DATE | E | Valid date | YYYYMMDD | 0/1 | 8 | Payment date |
| | | | | | | |
| **Summary1** | | N/A | N/A | 1 or more per PIPTransaction | | #N/D |
| AMOUNT | E | valid number | Decimal=9999,99 | 1/1 | 18 | Net amount for each tax code present in the invoice |

# Fattura Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| TAX_CODE | E | A1<br>A2<br>A3<br>A4<br>A5<br>A6<br>A7<br>A8<br>AL<br>AN<br>AS<br>AR<br>NC<br>V1<br>V2<br>V3<br>V4<br>V5<br>V8<br>VC<br>VS<br>VR | N/A | 1/1 | 2 | TAX Code |
| TAX_AMOUNT | E | Valid number | Decimal=9999,99 | 1/1 | 18 | TAX Amount |
| TOTAL_AMOUNT | E | Valid number | Decimal=9999,99 | 1/1 | 18 | Total amount (net + tax) |
| QUANTITY | E | Valid number | Decimal=9999,999 | 1/1 | max=18 | Total quantity |
| | | | | | | |
| **Summary2** | | N/A | N/A | 1 or more per PIPTransaction | | #N/D |
| TAX_CODE | E | A1<br>A2<br>A3<br>A4<br>A5<br>A6<br>A7<br>A8<br>AL<br>AN<br>AS<br>AR<br>NC<br>V1<br>V2<br>V3<br>V4<br>V5<br>V8<br>VC<br>VS<br>VR | N/A | 1/1 | 2 | TAX Code |
| MARKET | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market)<br>MSD1 (Dispatching Service Market)<br>MSD2 (Dispatching Service Market - second session)<br>MSD3 (Dispatching Service Market - third session)<br>MSD4 (Dispatching Service Market - forth session)<br>MSD5 (Dispatching Service Market - fifth session)<br>MSD6 (Dispatching Service Market - sixth session) | N/A | 1/1 | 18 | Market indication |
| TOTAL_AMOUNT | E | | Decimal=9999,99 | 1/1 | 18 | Total amount for the market and the tax code inidicated above |
| QUANTITY | E | Valid number | Decimal=9999,999 | 1/1 | max=18 | Total quantity |
| | | | | | | |
| **Summary3** | | N/A | N/A | 0 or more per PIPTransaction | | #N/D |

# Fattura Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| TAX_CODE | E | A1<br>A2<br>A3<br>A4<br>A5<br>A6<br>A7<br>A8<br>AL<br>AN<br>AS<br>NC<br>V1<br>V2<br>V3<br>V4<br>V5<br>V8<br>VC<br>VS | N/A | 1/1 | 2 | TAX Code |
| MARKET | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market)<br>MSD1 (Dispatching Service Market)<br>MSD2 (Dispatching Service Market - second session)<br>MSD3 (Dispatching Service Market - third session)<br>MSD4 (Dispatching Service Market - forth session)<br>MSD5 (Dispatching Service Market - fifth session)<br>MSD6 (Dispatching Service Market - sixth session) | N/A | 1/1 | 6 | Market indication |
| UNIT_CODE | E | N/A | N/A | 1/1 | 16 | Unit reference code (not used) |
| UNIT_TYPE | E | PROD<br>CONS<br>BOTH | N/A | 1/1 | 4 | Unit type (production, consumption, mixed) |
| FLOW_DATE | E | Valid date | YYYYMMDD | 1/1 | 8 | Flow date |
| UNIT_OF MEASURE | E | MWh | A/N | 1/1 | N/A | The unit of measure which describes the Quantity |
| TOTAL_AMOUNT | E | Valid number | Decimal=9999,99 | 1/1 | 18 | Total amount for the market and the tax code inidicated above |
| QUANTITY | E | Valid number | Decimal=9999,999 | 1/1 | max=18 | Total quantity |

# UnitSchedules Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 1/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| UnitSchedule | E | (see UnitSchedules data structure) | N/A | 1/1 | N/A | A PIPTransaction made available by GME to Market Participants which indicates the unit schedule of units outcoming from the execution of the market: for MGP/MI it represents the commercial net position of those markets, while for XBID it represents the schedule (nomination) on the units |
| **UnitSchedule** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction made available by GME to Market Participants which indicates the unit schedule of units outcoming from the execution of the market: for MGP/MI it represents the commercial net position of those markets, while for XBID it represents the schedule (nomination) on the units |
| MarketParticipantNumber | A | A Valid Market Partipant ID in the GME System | A/N | 1/1 | 30 | On the BidSubmittal, on UnitMargins and on FifteenMinuteSchedule transaction, this is an alphanumeric code optionally assigned to a bid or offer by the Market Participant for the Market Participant's own use. On other transactions, this is the unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| Type | A | PreliminaryProvisional, Preliminary, FirstFinal, FirstUpdated, FinalXbid | PreliminaryProvisional<br>Preliminary<br>FirstUpdated<br>FirstFinal<br>PreliminaryXbid<br>FinalXbid | 1/1 | max=22 | In Unit Schedule transaction indicates the type of unit schedule: if it's after MGP, MIn, MSD or Xbid. In FifteenMinutesSchedule transaction indicates if it's original or it has been corrected by the system. In MarketResultMB transaction indicates if the results are Preliminary or Definitive |

# UnitSchedules Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market)<br>XB00 (preliminary before MSD1 market)<br>XB01 - XB100 (XBID definitive for period XX and intermedite for the next ones) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| UnitReferenceNumber | E | Valid Unit Reference Number in GME Unit Register | A/N | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| ReferenceMarketParticipantNumber | E | Valid ID of a Market Participant in the GME System | A/N | 1/1 | max=60 | The unique identifier for the Market Participant as recorded in the GME Market Participant Register who is the Reference Market Participant for the Unit |
| UnbalancedMarketParticipantNumber | E | Valid ID of a Market Participant in the GME System | A/N | 0/1 | max=60 | The unique identifier for the Market Participant as recorded in the GME Market Participant Register who is the Unbalanced Market Participant for the Unit |
| Quantity | E | A valid number | Decimal=9999,999 | 1/100 | max=8 | In Unit Schedule transaction is the power that has been accepted/nominated for that specific interval. In FifteenMinuteSchedule represent the power generated/consumpted in a quarter. |
| TimeResolution | A | PT15 | N | 1/1 | max=3 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |
| Period | A | 1 through 100 for Mix and XBID (for the XBID/Nomination ones, periods that were previously already delivered will not be present in the US) | 1/100 | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| UnitOfMeasure | A | MW | A/N | 1/1 | N/A | The unit of measure which describes the Quantity |

# PIPEFunctionalAcknowledgement Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEFunctionalAcknowledgement** | | N/A | N/A | 1 per PIPEFunctionalAcknowledgement | N/A | A document made available by GME to the Market Participant informing the Market Participant of the status of a document received from the Market Participant |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEFunctionalAcknowledgementv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| OriginalReferenceNumber | A | N/A | A/N | 1/1 | max=36 | Attribute that references the original transaction. |
| Status | A | Accept, Reject or Partial | N/A | 1/1 | N/A | The status (Accept, Reject) of a transaction |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| RejectInformation | E | (see RejectInformation data structure) | N/A | 0 or more | N/A | Contains tags that define the reasons for rejection of the transaction. |
| TransactionAcknowledgement | E | (see TransactionAcknowledgement data structure) | N/A | 0 or more | N/A | Contains tags that define the positive or negative acknowledgement of receipt of the orignal transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | 60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | 80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **TransactionAcknowledgement** | | N/A | N/A | 0 or more TransactionAcknowledgement per PIPE Document | N/A | Contains tags that define the positive or negative acknowledgement of receipt of the orignal transaction. |
| OriginalReferenceNumber | A | N/A | A/N | 1/1 | max=36 | Attribute that references the original transaction. |
| Status | A | Accept, Reject or Partial | N/A | 1/1 | N/A | The status (Accept, Reject) of a transaction |
| PIPTransactionType | A | BidSubmittal, BidNotification, UnitMargins, UnitSchedule | A/N | 0/1 | N/A | Indicates the type of PIP transaction that is being referred to. (i.e. BidSubmittal, UnitMargins, etc.) |
| RejectInformation | E | (see Reject Information data structure) | N/A | 0 when Status is Accept, 1 otherwise | N/A | Contains tags that define the reasons for rejection of the transaction. |
| **RejectInformation** | | N/A | N/A | 0 or more RejectInformation per PIPEFunctionalAcknowledgement | N/A | Contains tags that define the reasons for rejection of the transaction. |
| Reason | E | N/A | A/N | 1/1 | max=30 | A short description of the rejection of the transaction |
| ReasonText | E | N/A | A/N | 0/1 | max=250 | The text explanation for the rejection of the transaction |

# Program Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **Message** | | | Request | 1/1 | N/A | #N/D |
| Version | A | 1.0 | N/A | 1/1 | N/A | Identifies the version of the LtsMessageSchema |
| Encoding | A | iso-8859-1 | N/A | 1/1 | N/A | |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | N/A | 1/1 | N/A | Associates the actual schema instance being used to the name space. |
| xmlns:xsd | A | http://www.w3.org/2001/XMLSchema | N/A | 1/1 | N/A | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| MessageType | A | Response | N/A | 1/1 | N/A | Message Type |
| MessageDate | A | Valid Date | YYYY-MM-DD | 1/1 | N/A | Date of the message |
| MessageTime | A | Valid Time Stamp | HH:MM:SS.1234567Z | 1/1 | N/A | Time of the message |
| MessageCode | A | | integer | 0/1 | N/A | |
| xmlns | A | urn:XML-LTS | N/A | 1/1 | N/A | identifies the xml namespace |
| Header | E | (see Header data structure) | N/A | 1/1 | N/A | Sender and recipient of the message |
| Transaction | E | (see Transaction data structure) | N/A | 1 or more | N/A | Transaction Container |
| **Header** | | N/A | N/A | | | |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | | N/A | Used to identify the sender of the PIPEDocument. |
| CompanyName | E | | N/A | 0/1 | min=1 max=60 | The Name of the Sender |
| UserMsgCode | E | | N/A | 0/1 | min=1 max=50 | The unique identifier for the user who sends |
| OperatorMsgCode | E | | N/A | 1/1 | min=1 max=16 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **Recipient** | | N/A | N/A | | N/A | Used to identify the recipient of the PIPEDocument. |
| CompanyName | E | | N/A | 0/1 | min=1 max=60 | The Name of the Receiver |
| UserMsgCode | E | | N/A | 0/1 | min=1 max=50 | The unique identifier for the user who sends |
| OperatorMsgCode | E | IDGME | N/A | 1/1 | min=1 max=16 | The unique identifier for the Receiver |
| **Transaction** | | N/A | N/A | 1 or more | N/A | |
| Program | E | | N/A | | N/A | A PIPTransaction submitted by Market Participants to GME which allow the MP to submit a nomination |
| **Program** | | N/A | N/A | | N/A | A PIPTransaction submitted by Market Participants to GME which allow the MP to submit a nomination |
| OperatorCode | E | | string | 1/1 | min=1 max=16 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| FlowDate | E | A valid date | YYYY-MM-DD | 1/1 | max=10 | |
| UnitId | E | Valid Unit Reference Number in GME Unit Register | string | 1/1 | max=60 | Alphanumeric code identifying the Consumption or Production Unit or Point of Offer |
| Interval | E | 1/100 (always related to PT15) | 1/100 | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| Direction | E | I (Injection), W (Withdrawal) | string | 1/1 | 1 | indicated if program is Injection or withdrawal |

# Program Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| OperationType | E | SUB (submitted), REVOKE (Revoke) | string | 1/1 | max=6 | |
| Qty | E | A valid number | Decimal=9999,9 | 1/1 | max=8 | quantity of the scheduling: no sign in the number |

# EstimatedDemandInformation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| EstimatedDemandInformation | E | (see EstimatedDemandInformation data structure) | N/A | 1 /1 | N/A | A PIPTransaction sent by TERNA to GME and then distributed to the Operators, which includes the information regarding the estimated demand in each of the physical zones for a given date |
| **EstimatedDemandInformation** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction sent by TERNA to GME and then distributed to the Operators, which includes the information regarding the estimated demand in each of the physical zones for a given date |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |

# EstimatedDemandInformation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| ZoneDetail | E | (see ZoneDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| | | | | | | |
| **ZoneDetail** | | N/A | N/A | 1 or more per EstimatedDemandInformation | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| Zone | E | NORD, CNOR, CSUD, SARD, SICI, SUD, CALA | A/N | 1/1 | N/A | A zone withinin the Italian Energy Grid |
| EstimatedDemand | E | Valid Number | Decimal=9999999,999 | 1/25 | N/A | The estimated quantity of energy that will be required in a particular zone for a particular date |
| Period | A | 1 through 100 (always related to PT15) | N | 1 per EstimatedDemand | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |

# MarketResult Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| MarketResult | E | (see MarketResult data structure) | N/A | 1 /1 | N/A | A PIPTransaction made available by GME to Operators, which gives the prices and the quantities resulting from the execution of the market |
| **MarketResult** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction made available by GME to Operators, which gives the prices and the quantities resulting from the execution of the market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| MarketDetail | E | (see MarketDetail data structure) | N/A | 1/1 | N/A | Detail information referring to a specific Market |

# MarketResult Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **MarketDetail** | | N/A | N/A | 1/1 | N/A | Detail information referring to a specific Market |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market)<br>MSD1 (Dispatching Service Market)<br>MSD2 (Dispatching Service Market - second session)<br>MSD3 (Dispatching Service Market - third session)<br>MSD4 (Dispatching Service Market - forth session)<br>MSD5 (Dispatching Service Market - fifth session)<br>MSD6 (Dispatching Service Market - sixth session) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| ZoneDetail | E | (see ZoneDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| | | | | | | |
| **ZoneDetail** | | N/A | N/A | 1 or more per MarketDetail | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| Zone | E | NORD, CNOR, CSUD, SARD, SICI, CALA, GREC, AUST, SVIZ, CORS, SLOV, FRAN, COAC, COUP, SUD, BSP, MALT, MONT, XAUS, XFRA, XGRE, XSVI | A/N | 1/1 | N/A | A zone withinin the Italian Energy Grid |
| Interval | E | N/A | N | 1/175 | N/A | Detail information about the result for the given zone and the hour indicated in the "Period" attribute |
| | | | | | | |
| **Interval** | | N/A | N | 1 or more per ZoneDetail | N/A | Detail information about the result for the given zone and the hour indicated in the "Period" attribute |
| BuyPrice | E | N/A | Decimal=99999,999999 | 1/1 | max=13 | Closure price of the market for buying offers (for MGP is the PUN Index GME) |
| SellPrice | E | N/A | Decimal=99999,999999 | 1/1 | max=13 | Closure price of the market for selling offers |
| Generation | E | N/A | Decimal=999999,9 | 1/1 | max=10 | Total of generation in the zone |
| Consumption | E | N/A | Decimal=999999,9 | 1/1 | max=10 | Total of consumption in the zone |
| Period | A | 1 through 100 | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| TimeResolution | A | PT15<br>PT30 (only for MGP)<br>PT60 (only for MGP) | N | 1/1 | 4 | Resolution related to the period (in offers, blocks, results): currently MGP PT15, PT30 and PT60, MI/MSD only PT15 |

# MarketResultMB Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| MarketResultMB | E | (see MarketResultMB data structure) | N/A | 1 /1 | N/A | A PIPTransaction made available by GME to Operators, which gives the prices and the quantities of the MB market as sent by Terna |
| **MarketResultMB** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction made available by GME to Operators, which gives the prices and the quantities of the MB market as sent by Terna |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Market | E | (see Market data structure) | N/A | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |

# MarketResultMB Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| Period | E | 1 through 100 | N | 1/1 | | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| MarketDetail | E | (see MarketDetail data structure) | N/A | 1/1 | N/A | Detail information referring to a specific Market |
| | | | | | | |
| **Market** | | MB (Balancing Market) | N/A | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| type | A | PRELIMINARY | A/N | 1/1 | N/A | In Unit Schedule transaction indicates the type of unit schedule: if it's after MGP, MIn, MSD or Xbid. In FifteenMinutesSchedule transaction indicates if it's original or it has been corrected by the system. In MarketResultMB transaction indicates if the results are Preliminary or Definitive |
| | | | | | | |
| **MarketDetail** | | N/A | N/A | 1/1 | N/A | Detail information referring to a specific Market |
| ZoneDetail | E | (see ZoneDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| | | | | | | |
| **ZoneDetail** | | N/A | N/A | 1 or more per MarketDetail | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| Zone | E | NORD, CNOR, CSUD, SARD, SICI, CALA, SUD | A/N | 1/1 | N/A | A zone withinin the Italian Energy Grid |
| RSResult | E | (see RSResult data structure) | N | 1/1 | N/A | Results regarding Secondary Reserve (Riserva Secondaria) of the MB Market Reserve |
| ASResult | E | (see ASResult data structure) | N | 1/1 | N/A | Results regarding Other services (Altri Servizi) of the MB Market Reserve |
| | | | | | | |
| **RSResult** | | N/A | N/A | 1/1 | N/A | Results regarding Secondary Reserve (Riserva Secondaria) of the MB Market Reserve |
| MaxSellPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | The maximum price accepted in the zone for a selling offer |
| MinBuyPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | The minimum price accepted in the zone for a buying offer |
| BuyPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | Closure price of the market for buying offers (for MGP is the PUN Index GME) |
| SellPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | Closure price of the market for selling offers |
| Generation_no165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of selling offers accepted in the zone on MB market |
| Consumption_no165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of buying offers accepted in the zone on MB market |
| Generation_165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of selling offers accepted in the zone on MB market as revocation of accepted MSD offers |
| Consumption_165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of buying offers accepted in the zone on MB market as revocation of accepted MSD bids |
| | | | | | | |
| **ASResult** | | N/A | N/A | 1/1 | N/A | Results regarding Other services (Altri Servizi) of the MB Market Reserve |
| MaxSellPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | The maximum price accepted in the zone for a selling offer |
| MinBuyPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | The minimum price accepted in the zone for a buying offer |
| BuyPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | Closure price of the market for buying offers (for MGP is the PUN Index GME) |

# MarketResultMB Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| SellPrice | E | N/A | Decimal=999,999999 | 0/1 | max=10 | Closure price of the market for selling offers |
| Generation_no165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of selling offers accepted in the zone on MB market |
| Consumption_no165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of buying offers accepted in the zone on MB market |
| Generation_165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of selling offers accepted in the zone on MB market as revocation of accepted MSD offers |
| Consumption_165 | E | N/A | Decimal=999999,999 | 1/1 | max=10 | Total of buying offers accepted in the zone on MB market as revocation of accepted MSD bids |

# ZoneInformation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| ZoneInformation | E | (see ZoneInformation data structure) | N/A | 1 /1 | N/A | A PIPTransaction send by TERNA to GME and then distributed to the Operators, which includes the Zone-related Preliminary Information for the Electricity Market |
| **ZoneInformation** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction send by TERNA to GME and then distributed to the Operators, which includes the Zone-related Preliminary Information for the Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| MarketDetail | E | (see MarketDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a specific Market |

# ZoneInformation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **MarketDetail** | | N/A | N/A | 1 or more per ZoneInformation | N/A | Detail information referring to a specific Market |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| InterZonalDetail | E | (see InterZonalDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a the limits between Zones within the Italian Electricity Market |
| | | | | | | |
| **InterZonalDetail** | | N/A | N/A | 1 or more per MarketDetail | N/A | Detail information referring to a the limits between Zones within the Italian Electricity Market |
| FromZone | E | NORD, CNOR, CSUD, SARD, SICI, CALA, GREC, AUST, SVIZ, CORS, SLOV, FRAN, COAC, COUP, SUD, BSP, MALT, MONT, XAUS, XFRA, XGRE, XSVI | A/N | 1/1 | N/A | The Zone from which the power flow is limited |
| ToZone | E | NORD, CNOR, CSUD, SARD, SICI, CALA, GREC, AUST, SVIZ, CORS, SLOV, FRAN, COAC, COUP, SUD, BSP, MALT, MONT, XAUS, XFRA, XGRE, XSVI | A/N | 1/1 | N/A | The Zone to which the power flow is limited |
| InterZonalLimits | E | (see InterZonalLimits data structure) | A/N | 1/100 | N/A | Contains tags that define the limits between Zones. |
| | | | | | | |
| **InterZonalLimits** | | N/A | N/A | 1/100 | N/A | Contains tags that define the limits between Zones. |
| Period | E | 1 through 100 (always related to PT15) | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| ConnectionLimit | E | Valid number | Decimal=99999,999 | 1/1 | max=10 | The limit, in MW, of the flow from the From Zone to the To Zone |
| ConnectionCoefficient | E | Number between 0 and 1 - usually 0 or 1 | Decimal=9,99 | 1/1 | max4 | The indication of a connection between zones (usually a value of 1, but could potentially be a number between 0 and 1) |

# GeneralizedConstraintsDetail Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| GeneralizedConstraintsDetail | E | (see GeneralizedConstraintsDetail data structure) | N/A | 1 /1 | N/A | Detail information referring to a the Generalized constraints (capacity and ramping information) |
| **GeneralizedConstraintsDetail** | | N/A | N/A | 1 per PIPTransaction | N/A | Detail information referring to a the Generalized constraints (capacity and ramping information) |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |
| Market | E | MGP (Day Ahead Market)<br>MI1 (first session of the IDA Market)<br>MI2 (second session of the IDA Market)<br>MI3 (third session of the IDA Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |

# GeneralizedConstraintsDetail Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| GeneralizedConstraints | E | (see GeneralizedContraints data structure) | N/A | 1 or more | N/A | Collection of tags pertaining to the Generalized Constraints |
| | | | | | | |
| **GeneralizedConstraints** | | N/A | N/A | 1 or more per ZoneInformation | N/A | Collection of tags pertaining to the Generalized Constraints |
| GeneralizedConstraint | E | (see GeneralizedConstraint data structure) | A/N | 1 or more | N/A | Collection of tag for a single Generalized Constraint |
| | | | | | | |
| **GeneralizedConstraint** | | N/A | N/A | 1 or more per MarketDetail | N/A | Collection of tag for a single Generalized Constraint |
| Name | A | GC_COUP | A/N | 1/1 | max=60 | A name or description for the above |
| InterZoneDetail | E | (see InterZoneDetail data structure) | A/N | 1 or more | N/A | Tags to define the lines included in the Generalized Constraint |
| GeneralizedConstraintsDetail | E | (see GeneralizedConstraintsDetail data structure) | N/A | 1 /1 | N/A | Detail information referring to a the Generalized constraints (capacity and ramping information) |
| | | | | | | |
| **InterZoneDetail** | | N/A | N/A | 1/25 | N/A | Tags to define the lines included in the Generalized Constraint |
| FromZone | A | NORD, CNOR, CSUD, SARD, SICI, CALA, GREC, AUST, SVIZ, CORS, SLOV, FRAN, COAC, COUP, SUD, BSP, MALT, MONT, XAUS, XFRA, XGRE, XSVI | A/N | 1/1 | N/A | The Zone from which the power flow is limited |
| ToZone | A | NORD, CNOR, CSUD, SARD, SICI, CALA, GREC, AUST, SVIZ, CORS, SLOV, FRAN, COAC, COUP, SUD, BSP, MALT, MONT, XAUS, XFRA, XGRE, XSVI | A/N | 1/1 | N/A | The Zone to which the power flow is limited |
| | | | | | | |
| **GeneralizedConstraintsDetail** | | N/A | N/A | 1 or more | N/A | Detail information referring to a the Generalized constraints (capacity and ramping information) |
| Period | A | 1 through 100 (always related to PT15) | N | 1/1 | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |
| LimitUp | A | Valid number | Decimal=99999,999 | 1/1 | max=10 | Maximum value in positive direction of the generalized constraints |
| LimitDown | A | Valid number | Decimal=99999,999 | 1/1 | max=10 | Maximum value in negative direction of the generalized constraints |
| LimitRamp | A | Valid number | Decimal=99999,999 | 0/1 | max=10 | Ramping limit up and down of the generalized constraints in case they are equal |
| LimitRampUp | A | Valid number | Decimal=99999,999 | 0/1 | max=10 | Ramping limit up of the generalized constraints in case LimitRamp not defined |
| LimitRampDown | A | Valid number | Decimal=99999,999 | 0/1 | max=10 | Ramping limit down of the generalized constraints in case LimitRamp not defined |

| GeneralizedConstraintsDetail Implementation Guide for GME | | | | | | |
|---|---|---|---|---|---|---|
| **Element / Attribute names** | **Attribute / Element** | **Valid Information in Field (enumeration)** | **Data Type** | **Occurances Min/Max** | **Field Length** | **Definition** |
| PreviousFlowDateFlowLastHour | A | Valid number | Decimal=99999,999 | 0/1 | max=10 | Last hour flow of the previous day to be considered in the ramping evaluation; significative only for the first relevant period of the market |

# EstimatedPriceInformation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| **PIPEDocument** | | N/A | N/A | 1 per PIPEDocument | N/A | Document type name, stands for Participant Interface Process for Energy. |
| xmlns | A | urn:XML-PIPE | A/N | 1/1 | max=30 | Uniquely identifies the XML name space. |
| xmlns:xsi | A | http://www.w3.org/2001/XMLSchema-instance | A/N | 1/1 | max=30 | Defines the schema instance being used. |
| xsi:schemaLocation | A | urn:XML-PIPE PIPEDocumentv1_0.xsd | A/N | 1/1 | max=30 | Associates the actual schema instance being used to the name space. |
| Version | A | 1.0 | A/N | 1/1 | N/A | Identifies the version of the PIPEDocument schema. |
| ReferenceNumber | A | Unique identifier for the PIPE Document. Must be unique for the Sender for all time | A/N | 1/1 | max=36 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| CreationDate | A | Valid date and time | YYYYMMDDHHMMSS | 1/1 | N/A | System date and time stamp of when the transaction is generated by the Sender |
| TradingPartnerDirectory | E | (see TradingPartnerDirectory data structure) | N/A | 1/1 | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| PIPTransaction | E | (see PIPTransaction data structure) | N/A | 1 or more | N/A | Indicates the beginning of a PIP transaction. |
| **TradingPartnerDirectory** | | N/A | N/A | 1 per PIPE Document | N/A | Contains tags that define all the Market Participants & Operators involved in the particular PIP transaction. |
| Sender | E | (see Sender data structure) | N/A | 1/1 | N/A | Used to identify the sender of the PIPEDocument. |
| Recipient | E | (see Recipient data structure) | N/A | 1/1 | N/A | Used to identify the recipient of the PIPEDocument. |
| **Sender** | | N/A | N/A | 1 per Trading Partner Directory | N/A | Used to identify the sender of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **Recipient** | | N/A | N/A | 1 perTrading Partner Directory | N/A | Used to identify the recipient of the PIPEDocument. |
| TradingPartner | E | (see TradingPartner data structure) | N/A | 1/1 | N/A | Identifies the Market Participants & Operators |
| **TradingPartner** | | N/A | N/A | 1 per Sender and 1 per Recipient | N/A | Identifies the Market Participants & Operators |
| PartnerType | A | MarketParticipant or Operator | N/A | 1/1 | N/A | Define if Trading Partner is a Market Participant or Operator (Gestore) |
| CompanyName | E | N/A | A/N | 1/1 | max=60 | The name of the Market Participant or Operator, included for reference only |
| CompanyIdentifier | E | Must match the unigue identifier of a Market Participant or Operator in the GME Market Participant Register | A/N | 1/1 | max=80 | The unique identifier for the Market Participant or Operator as recorded in the GME Market Participant Register |
| **PIPTransaction** | | N/A | N/A | 1 or more per PIPE Document | N/A | Indicates the beginning of a PIP transaction. |
| ReferenceNumber | A | Unique identifier for the PIPTransaction. Must be unique for the Sender for all time | A/N | 0/1 | max=30 | Unique identifier for a PIPE Document, or PIP Transaction. Must be unique for the Sender for all time to avoid possibility of duplication of transmission |
| InboundMessageCreationDate | A | A valid date | YYYYMMDD | 0/1 | max=8 | The date on which a transaction was stored in the GME system |
| InboundMessageCreationTime | A | A valid time | HHMMSSMMM | 0/1 | max=10 | The time, down to the millesecond, at which a transaction was stored in the GME system |
| EstimatedPriceInformation | E | (see EstimatedPriceInformation data structure) | N/A | 1 /1 | N/A | A PIPTransaction inserted by GME which includes the information regarding the Conventional Prices to be used in each of the zones for a given date |
| **EstimatedPriceInformation** | | N/A | N/A | 1 per PIPTransaction | N/A | A PIPTransaction inserted by GME which includes the information regarding the Conventional Prices to be used in each of the zones for a given date |
| Market | E | MGP (Day Ahead Market) | A/N | 1/1 | N/A | The alphanumeric code identifying a specific Electricity Market |
| Date | E | Valid date | YYYYMMDD | 1/1 | 8 | The date of Power Flow |

# EstimatedPriceInformation Implementation Guide for GME

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurances Min/Max | Field Length | Definition |
|---|---|---|---|---|---|---|
| ZoneDetail | E | (see ZoneDetail data structure) | N/A | 1 or more | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| | | | | | | |
| **ZoneDetail** | | N/A | N/A | 1 or more per EstimatedPriceInformation | N/A | Detail information referring to a Zone within the Italian Electricity Market |
| Zone | E | NORD, CNOR, CSUD, SARD, SICI, CALA, GREC, AUST, SVIZ, CORS, SLOV, FRAN, COAC, COUP, SUD, MALT, MONT | A/N | 1/1 | N/A | A zone withinin the Italian Energy Grid |
| EstimatedPrice | E | Valid Number | Decimal=999,999 | 1/100 | N/A | The "Conventional Price" to be used in the valuation of non-priced bids when checking for financial consistency |
| Period | A | 1 through 100 | N | 1 per EstimatedPrice | max=3 | The relevant period in the Power Flow day:<br>for 15 minutes granularity, 1 being the first quarter of the day (00.00.00-00.15.00) and 96 (92 = shorter day in the DST transition, 100=longest day in DST transition) being the last quarter of the day (23.45.00-00.00.00)<br>for 30 minutes granularity, 1 being the first half hour of the day (00.00.00-00.30.00) and 48 (46 = shorter day in the DST transition, 50=longest day in DST transition) being the last half hour of the day (23.30.00-00.00.00)<br>for 60 minutes granularity, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00) |

## *UnitMargins*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MGPmPRIMOP20020516165855' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
    <UnitMargins>
      <Date>20250320</Date>
      <Market>MGP</Market>
      <UnitDetail>
        <UnitReferenceNumber>UnC2</UnitReferenceNumber>
            <Period MarginDown="30,0" MarginUp="0,0">1</Period>
            <Period MarginDown="30,0" MarginUp="0,0">2</Period>
            <Period MarginDown="30,0" MarginUp="0,0">3</Period>
            <Period MarginDown="30,0" MarginUp="0,0">4</Period>
            <Period MarginDown="30,0" MarginUp="0,0">5</Period>
            <Period MarginDown="30,0" MarginUp="0,0">6</Period>
            <Period MarginDown="30,0" MarginUp="0,0">7</Period>
            <Period MarginDown="30,0" MarginUp="0,0">8</Period>
```

## APPENDIX A - Transaction Examples

```
          <Period MarginDown="30,0" MarginUp="0,0">9</Period>
          <Period MarginDown="30,0" MarginUp="0,0">10</Period>
          <Period MarginDown="30,0" MarginUp="0,0">11</Period>
          <Period MarginDown="30,0" MarginUp="0,0">12</Period>
          <Period MarginDown="30,0" MarginUp="0,0">13</Period>
```

- 
- [etc.]
- 

```
          <Period MarginDown="30,0" MarginUp="0,0">94</Period>
          <Period MarginDown="30,0" MarginUp="0,0">95</Period>
          <Period MarginDown="30,0" MarginUp="0,0">96</Period>
    </UnitDetail>
  </UnitMargins>
</PIPTransaction>

<PIPTransaction>
  <UnitMargins>
    <Date>20250320</Date>
    <Market>MGP</Market>
    <UnitDetail>
      <UnitReferenceNumber>UnP2</UnitReferenceNumber>
          <Period MarginDown="0,0" MarginUp="40,1">1</Period>
          <Period MarginDown="0,0" MarginUp="40,1">2</Period>
          <Period MarginDown="0,0" MarginUp="40,1">3</Period>
          <Period MarginDown="0,0" MarginUp="40,1">4</Period>
          <Period MarginDown="0,0" MarginUp="40,1">5</Period>
          <Period MarginDown="0,0" MarginUp="40,1">6</Period>
          <Period MarginDown="0,0" MarginUp="40,1">7</Period>
          <Period MarginDown="0,0" MarginUp="40,1">8</Period>
          <Period MarginDown="0,0" MarginUp="40,1">9</Period>
          <Period MarginDown="0,0" MarginUp="40,1">10</Period>
          <Period MarginDown="0,0" MarginUp="40,1">11</Period>
          <Period MarginDown="0,0" MarginUp="40,1">12</Period>
          <Period MarginDown="0,0" MarginUp="40,1">13</Period>
```

- 
- [etc.]

## APPENDIX A - Transaction Examples

- 

```
            <Period MarginDown="0,0" MarginUp="40,1">94</Period>
            <Period MarginDown="0,0" MarginUp="40,1">95</Period>
            <Period MarginDown="0,0" MarginUp="40,1">96</Period>
      </UnitDetail>
    </UnitMargins>
  </PIPTransaction>

</PIPEDocument>
```

**APPENDIX A - Transaction Examples**

## *PIPEDocument.xsd (for UnitMargins)*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:UnitMargins"/>
            </sequence>
        </complexType>
    </element>
    <element name="UnitMargins">
        <complexType>
            <sequence>
                <element name="Date" type="pd:dateType"/>
                <element name="Market" type="pd:marketType"/>
                <element name="UnitDetail" maxOccurs="unbounded">
                    <complexType>
                        <sequence>
                            <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                            <element name="Period" minOccurs="92" maxOccurs="100">
                                <complexType>
                                    <simpleContent>
                                        <extension base="pd:hourIntervalType">
                                            <attribute name="MarginUp" type="pd:localeDecimal" use="required"/>
                                            <attribute name="MarginDown" type="pd:localeDecimal" use="required"/>
                                        </extension>
                                    </simpleContent>
                                </complexType>
                            </element>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
            <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
        </complexType>
    </element>
```

## APPENDIX A - Transaction Examples

```
</schema>
```

## *BidSubmittal MGP (single)*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MGPoPRIMOP20020516165855' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
    <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='Yes'>
      <Market>MGP</Market>
      <Date>20250320</Date>
      <Period>1</Period>
      <TimeResolution>PT15</TimeResolution>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>2,5</BidQuantity>
      <EnergyPrice>53,4</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>
```

- 
- [etc.]

## APPENDIX A - Transaction Examples

- 

```
  <PIPTransaction>
    <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='Yes'>
      <Market>MGP</Market>
      <Date>20250320</Date>
      <Period>27</Period>
      <TimeResolution>PT15</TimeResolution>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>2,4</BidQuantity>
      <EnergyPrice>44,84</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>

</PIPEDocument>
```

## *BidSubmittal MGP (multiple)*

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MGPoPRIMOP20020516165856' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
    <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='Yes'>
      <Market>MGP</Market>
      <Date>20250320</Date>
      <Period>1</Period>
      <TimeResolution>PT30</TimeResolution>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>2,6</BidQuantity>
      <EnergyPrice>64,86</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>

  <PIPTransaction>
    <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>
      <Market>MGP</Market>
```

```
    <Date>20250320</Date>
    <Period>1</Period>
    <TimeResolution>PT30</TimeResolution>
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    <BidQuantity UnitOfMeasure='MW'>3,5</BidQuantity>
    <EnergyPrice>76,9</EnergyPrice>
  </BidSubmittal>
</PIPTransaction>

<PIPTransaction>
  <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>
    <Market>MGP</Market>
    <Date>20250320</Date>
    <Period>1</Period>
    <TimeResolution>PT30</TimeResolution>
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    <BidQuantity UnitOfMeasure='MW'>2,8</BidQuantity>
    <EnergyPrice>89,02</EnergyPrice>
  </BidSubmittal>
</PIPTransaction>
```

- 
- [etc.]
- 

```
<PIPTransaction>
  <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='Yes'>
    <Market>MGP</Market>
    <Date>20250320</Date>
    <Period>24</Period>
    <TimeResolution>PT60</TimeResolution>
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    <BidQuantity UnitOfMeasure='MW'>2,5</BidQuantity>
    <EnergyPrice>55,73</EnergyPrice>
  </BidSubmittal>
</PIPTransaction>

<PIPTransaction>
  <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>
```

```
      <Market>MGP</Market>
      <Date>20250320</Date>
      <Period>24</Period>
      <TimeResolution>PT60</TimeResolution>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>2,6</BidQuantity>
      <EnergyPrice>67,61</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>


  <PIPTransaction>
    <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>
      <Market>MGP</Market>
      <Date>20250320</Date>
      <Period>24</Period>
      <TimeResolution>PT60</TimeResolution>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>1,2</BidQuantity>
      <EnergyPrice>73,64</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>

</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittal MGP (single-multiple)*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:BidSubmittal"/>
            </sequence>
        </complexType>
    </element>
    <element name="BidSubmittal">
        <complexType>
            <sequence>
                <element name="Market" type="pd:marketMGPType"/>
                <element name="Date" type="pd:dateType"/>
                <element name="Period" type="pd:periodIntervalType"/>
                <element name="TimeResolution" type="pd:timeResolutionType"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                <element name="BidQuantity">
                    <complexType>
                        <simpleContent>
                            <extension base="pd:localeDecimal">
                                <attribute name="UnitOfMeasure" type="pd:unitOfMeasureMWhType" use="required"/>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
                <element name="EnergyPrice" type="pd:localeDecimal"/>
            </sequence>
            <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
            <attribute name="Purpose" type="pd:purposeTradeType" use="required"/>
            <attribute name="PredefinedOffer" type="pd:yesNoType" use="required"/>
            <attribute name="ReplacementIndicator" type="pd:yesNoType" use="required"/>
        </complexType>
    </element>
</schema>
```

## *BidSubmittal MI1/2/3*

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MA1oPRIMOP20020516165856' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
    <BidSubmittal Purpose='Buy' ReplacementIndicator='Yes'>
      <Market>MIn</Market>
      <Date>20020916</Date>
      <Period>1</Period>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>1000</BidQuantity>
      <EnergyPrice>30</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>

</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittal MI1/2/3*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:BidSubmittal"/>
            </sequence>
        </complexType>
    </element>
    <element name="BidSubmittal">
        <complexType>
            <sequence>
                <element name="Market" type="pd:marketBidType"/>
                <element name="Date" type="pd:dateType"/>
                <element name="Period" type="pd:periodIntervalType"/>
                <element name="TimeResolution" type="pd:timeResolutionType" minOccurs="0"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                <element name="BidQuantity">
                    <complexType>
                        <simpleContent>
                            <extension base="pd:localeDecimal">
                                <attribute name="UnitOfMeasure" type="pd:unitOfMeasureMWhType" use="required"/>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
                <element name="EnergyPrice" type="pd:localeDecimal"/>
            </sequence>
            <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
            <attribute name="BalancedReferenceNumber" type="pd:lengthThirtyType" use="optional"/>
            <attribute name="Purpose" type="pd:purposeTradeType" use="required"/>
            <attribute name="ReplacementIndicator" type="pd:yesNoType" use="required"/>
        </complexType>
    </element>
</schema>
```

## *BidSubmittalBlock*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MGPoPRIMOP20020516165855' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
      <BidSubmittalBlock Purpose="Sell" ReplacementIndicator="Yes" MarketParticipantNumber="Blocco1">
            <Market>MGP</Market>
            <Date>20240802</Date>
            <UnitReferenceNumber>UP_UNITA1</UnitReferenceNumber>
            <EnergyPrice>-10</EnergyPrice>
            <MinimumAcceptanceRatio>1</MinimumAcceptanceRatio>
            <TimeResolution>PT60</TimeResolution>
            <Offers>
               <Offer Period="1" Qty="0,1"/>
               <Offer Period="2" Qty="0,1"/>
               <Offer Period="3" Qty="0,1"/>
            </Offers>
      </BidSubmittalBlock>
```

```
</PIPTransaction>

<PIPTransaction>
    <BidSubmittalBlock Purpose="Sell" ReplacementIndicator="No" MarketParticipantNumber="Blocco2">
          <Market>MGP</Market>
          <Date>20240802</Date>
          <UnitReferenceNumber>UP_UNITA1</UnitReferenceNumber>
          <EnergyPrice>0</EnergyPrice>
          <MinimumAcceptanceRatio>0,8</MinimumAcceptanceRatio>
          <TimeResolution>PT60</TimeResolution>
          <Offers>
            <Offer Period="4" Qty="0,1"/>
            <Offer Period="5" Qty="0,1"/>
            <Offer Period="6" Qty="0,1"/>
            <Offer Period="7" Qty="0,1"/>
          </Offers>
    </BidSubmittalBlock>
</PIPTransaction>

<PIPTransaction>
    <BidSubmittalBlock Purpose="Sell" ReplacementIndicator="No" MarketParticipantNumber="Blocco3">
          <Market>MGP</Market>
          <Date>20240802</Date>
          <UnitReferenceNumber>UP_UNITA2</UnitReferenceNumber>
          <EnergyPrice>0</EnergyPrice>
          <MinimumAcceptanceRatio>0,3</MinimumAcceptanceRatio>
          <TimeResolution>PT30</TimeResolution>
          <Offers>
             <Offer Period="7" Qty="0,1"/>
             <Offer Period="8" Qty="0,1"/>
             <Offer Period="9" Qty="0,1"/>
             <Offer Period="10" Qty="0,1"/>
             <Offer Period="11" Qty="0,1"/>
          </Offers>
    </BidSubmittalBlock>
</PIPTransaction>

<PIPTransaction>
    <BidSubmittalBlock Purpose="Sell" ReplacementIndicator="No" MarketParticipantNumber="Blocco4">
          <Market>MGP</Market>
```

```
            <Date>20240802</Date>
            <UnitReferenceNumber>UP_UNITA1</UnitReferenceNumber>
            <EnergyPrice>0</EnergyPrice>
            <MinimumAcceptanceRatio>0,3</MinimumAcceptanceRatio>
            <TimeResolution>PT15</TimeResolution>
            <Offers>
               <Offer Period="12" Qty="0,1"/>
               <Offer Period="13" Qty="0,1"/>
               <Offer Period="14" Qty="0,1"/>
            </Offers>
      </BidSubmittalBlock>
  </PIPTransaction>

  <PIPTransaction>
      <BidSubmittalBlock Purpose="Sell" ReplacementIndicator="No" MarketParticipantNumber="Blocco5">
            <Market>MGP</Market>
            <Date>20240802</Date>
            <UnitReferenceNumber>UP_UNITA1</UnitReferenceNumber>
            <EnergyPrice>0</EnergyPrice>
            <MinimumAcceptanceRatio>0,3</MinimumAcceptanceRatio>
            <TimeResolution>PT60</TimeResolution>
            <Offers>
               <Offer Period="15" Qty="0,1"/>
               <Offer Period="16" Qty="0,1"/>
            </Offers>
      </BidSubmittalBlock>
  </PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittalBlock*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:BidSubmittalBlock"/>
            </sequence>
        </complexType>
    </element>
    <element name="BidSubmittalBlock">
        <complexType>
            <sequence>
                <element name="Market" type="pd:marketAllowedTypeBlock"/>
                <element name="Date" type="pd:validDateType"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                <element name="EnergyPrice" type="pd:localeDecimal"/>
                <element name="MinimumAcceptanceRatio" type="pd:tyMinimumAcceptanceRatio"/>
                <element name="TimeResolution" type="pd:timeResolutionType" minOccurs="0"/>
                <element name="Offers" minOccurs="1" maxOccurs="1"/>
                    <complexType>
                        <sequence>
                            <element name="Offer" minOccurs="1" maxOccurs="100"/>
                                <complexType>
                                    <attribute name="Period" type="pd:periodIntervalType" use="required"/>
                                    <attribute name="Qty" type="pd:localeDecimal" use="required"/>
                                </complexType>
                            </element>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
            <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
            <attribute name="Purpose" type="pd:purposeTradeType" use="required"/>
            <attribute name="ReplacementIndicator" type="pd:yesNoType" use="required"/>
        </complexType>
```

```
    </element>
</schema>
```

## *BidSubmittal MSD*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MSDOEccSNaggytaaL20135032' CreationDate='20091129135032' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>IDAU</CompanyName>
        <CompanyIdentifier>IDAU</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
    <BidSubmittal PredefinedOffer='No' RifStand='MI1'>
      <Market>MSD1</Market>
      <Date>20100101</Date>
      <Period>1</Period>
      <UnitReferenceNumber>UP_XXXXXX_1</UnitReferenceNumber>
      <Offer PresentedOffer='No' Purpose='Sell' Scope='RS'>
            <BidQuantity UnitOfMeasure='MW'>1,1</BidQuantity>
            <EnergyPrice>23</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='No' Purpose='Buy' Scope='RS'>
            <BidQuantity UnitOfMeasure='MW'>2</BidQuantity>
            <EnergyPrice>24</EnergyPrice>
```

```
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='AS'>
      <BidQuantity UnitOfMeasure='MW'>3</BidQuantity>
      <EnergyPrice>25,6</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='No' Purpose='Buy' Scope='AS'>
      <BidQuantity UnitOfMeasure='MW'>4</BidQuantity>
      <EnergyPrice>26</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR1'>
      <BidQuantity UnitOfMeasure='MW'>5</BidQuantity>
      <EnergyPrice>27</EnergyPrice>
      <SourceOffer>CONTR</SourceOffer>
      <ContractId>1</ContractId>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR1'>
      <BidQuantity UnitOfMeasure='MW'>6</BidQuantity>
      <EnergyPrice>28</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR2'>
      <BidQuantity UnitOfMeasure='MW'>7</BidQuantity>
      <EnergyPrice>29</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR2'>
      <BidQuantity UnitOfMeasure='MW'>8</BidQuantity>
      <EnergyPrice>30</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='No' Purpose='Sell' Scope='GR3'>
      <BidQuantity UnitOfMeasure='MW'>9</BidQuantity>
      <EnergyPrice>31</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR3'>
      <BidQuantity UnitOfMeasure='MW'>10</BidQuantity>
```

```
            <EnergyPrice>32</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='AC'>
            <BidQuantity UnitOfMeasure='MW'>1</BidQuantity>
            <EnergyPrice>3200</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='CA'>
            <BidQuantity UnitOfMeasure='MW'>1</BidQuantity>
            <EnergyPrice>3600</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
    </BidSubmittal>
  </PIPTransaction>

</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittal MSD*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<simpleType name="sourceOfferType">
		<restriction base="string">
			<enumeration value="UESS"/>
			<enumeration value="SPOT"/>
			<enumeration value="CONTR"/>
		</restriction>
	</simpleType>
	<simpleType name="MI1MI2Type">
		<restriction base="string">
			<enumeration value="MI1"/>
		</restriction>
	</simpleType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="10000"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
```

```
                    </sequence>
                </complexType>
            </element>
            <element name="Sender">
                <complexType>
                    <sequence>
                        <element ref="pd:TradingPartner"/>
                    </sequence>
                </complexType>
            </element>
            <element name="Recipient">
                <complexType>
                    <sequence>
                        <element ref="pd:TradingPartner"/>
                    </sequence>
                </complexType>
            </element>
            <element name="TradingPartner">
                <complexType>
                    <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                    </sequence>
                    <attribute name="PartnerType" type="string"/>
                </complexType>
            </element>
            <element name="PIPTransaction">
                <complexType>
                    <sequence>
                        <element ref="pd:BidSubmittal"/>
                    </sequence>
                </complexType>
            </element>
            <element name="BidSubmittal">
                <complexType>
                    <sequence>
                        <element name="Market" type="pd:fifteenMinuteScheduleMarketType"/>
                        <element name="Date" type="pd:dateType"/>
                        <element name="Period" type="pd:periodIntervalType"/>
                        <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                        <element name="Offer" minOccurs="12" maxOccurs="12">
                            <complexType>
                                <sequence>
                                    <element name="BidQuantity">
                                        <complexType>
                                            <simpleContent>
                                                <extension base="pd:localeDecimal">
```

```
                                                                                    <attribute name="UnitOfMeasure" type="pd:unitOfMeasureMWhType" use="required"/>
                                                                                </extension>
                                                                            </simpleContent>
                                                                        </complexType>
                                                                    </element>
                                                                    <element name="EnergyPrice" type="pd:localeDecimal"/>
                                                                    <element name="SourceOffer" type="pd:sourceOfferType"/>
                                                                    <element name="ContractId" type="pd:localeDecimal" minOccurs="0"/>
                                                                </sequence>
                                                                <attribute name="PresentedOffer" type="pd:yesNoType" use="required"/>
                                                                <attribute name="Purpose" type="pd:purposeTradeType" use="required"/>
                                                                <attribute name="Scope" type="pd:scopeType" use="required"/>
                                                            </complexType>
                                                        </element>
                                                    </sequence>
                                                    <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
                                                    <attribute name="PredefinedOffer" type="pd:yesNoType" use="required"/>
                                                    <attribute name="RifStand" type="pd:MI1MI2Type" use="optional"/>
                                                </complexType>
                                            </element>
                                        </schema>
```

## *BidSubmittal MB*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MSDOEEPSNL20091219134851' CreationDate='20091219134851' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>OEYYYYY</CompanyName>
        <CompanyIdentifier>OEYYYYY</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction>
    <BidSubmittal PredefinedOffer='No'>
      <Market>MBh</Market>
      <Date>20091219</Date>
      <Period>8</Period>
      <UnitReferenceNumber>UP_XXXXX_1</UnitReferenceNumber>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='RS'>
            <BidQuantity UnitOfMeasure='MW'>1</BidQuantity>
            <EnergyPrice>23</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Buy' Scope='RS'>
            <BidQuantity UnitOfMeasure='MW'>2</BidQuantity>
            <EnergyPrice>24</EnergyPrice>
```

```
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='AS'>
      <BidQuantity UnitOfMeasure='MW'>3</BidQuantity>
      <EnergyPrice>25</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='AS'>
      <BidQuantity UnitOfMeasure='MW'>4</BidQuantity>
      <EnergyPrice>26</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR1'>
      <BidQuantity UnitOfMeasure='MW'>5</BidQuantity>
      <EnergyPrice>27</EnergyPrice>
      <SourceOffer>CONTR</SourceOffer>
  <ContractId>1</ContractId>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR1'>
      <BidQuantity UnitOfMeasure='MW'>6</BidQuantity>
      <EnergyPrice>28</EnergyPrice>
      <SourceOffer>CONTR</SourceOffer>
  <ContractId>2</ContractId>
</Offer>
<Offer PresentedOffer='No' Purpose='Sell' Scope='GR2'>
      <BidQuantity UnitOfMeasure='MW'>7</BidQuantity>
      <EnergyPrice>29</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='No' Purpose='Buy' Scope='GR2'>
      <BidQuantity UnitOfMeasure='MW'>8</BidQuantity>
      <EnergyPrice>30</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='No' Purpose='Sell' Scope='GR3'>
      <BidQuantity UnitOfMeasure='MW'>9</BidQuantity>
      <EnergyPrice>31</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='No' Purpose='Buy' Scope='GR3'>
```

```
            <BidQuantity UnitOfMeasure='MW'>10</BidQuantity>
            <EnergyPrice>32</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR4'>
            <BidQuantity UnitOfMeasure='MW'>9</BidQuantity>
            <EnergyPrice>31</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR4'>
            <BidQuantity UnitOfMeasure='MW'>10</BidQuantity>
            <EnergyPrice>32</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='AC'>
            <BidQuantity UnitOfMeasure='MW'>1</BidQuantity>
            <EnergyPrice>3200</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='CA'>
            <BidQuantity UnitOfMeasure='MW'>0</BidQuantity>
            <EnergyPrice>3600</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
    </BidSubmittal>
  </PIPTransaction>

  <PIPTransaction>
    <BidSubmittal PredefinedOffer='No'>
      <Market>MBh</Market>
      <Date>20091219</Date>
      <Period>22</Period>
      <UnitReferenceNumber>UP_XXXXX_1</UnitReferenceNumber>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='RS'>
            <BidQuantity UnitOfMeasure='MW'>1</BidQuantity>
            <EnergyPrice>23</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Buy' Scope='RS'>
            <BidQuantity UnitOfMeasure='MW'>2</BidQuantity>
```

```
      <EnergyPrice>24</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='AS'>
      <BidQuantity UnitOfMeasure='MW'>3</BidQuantity>
      <EnergyPrice>25</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='AS'>
      <BidQuantity UnitOfMeasure='MW'>4</BidQuantity>
      <EnergyPrice>26</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR1'>
      <BidQuantity UnitOfMeasure='MW'>5</BidQuantity>
      <EnergyPrice>27</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR1'>
      <BidQuantity UnitOfMeasure='MW'>6</BidQuantity>
      <EnergyPrice>28</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR2'>
      <BidQuantity UnitOfMeasure='MW'>7</BidQuantity>
      <EnergyPrice>29</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR2'>
      <BidQuantity UnitOfMeasure='MW'>8</BidQuantity>
      <EnergyPrice>30</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Sell' Scope='GR3'>
      <BidQuantity UnitOfMeasure='MW'>9,2/BidQuantity>
      <EnergyPrice>31</EnergyPrice>
      <SourceOffer>SPOT</SourceOffer>
</Offer>
<Offer PresentedOffer='Yes' Purpose='Buy' Scope='GR3'>
      <BidQuantity UnitOfMeasure='MW'>10</BidQuantity>
```

```
            <EnergyPrice>32</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='No' Purpose='Sell' Scope='GR4'>
            <BidQuantity UnitOfMeasure='MW'>9</BidQuantity>
            <EnergyPrice>31</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='No' Purpose='Buy' Scope='GR4'>
            <BidQuantity UnitOfMeasure='MW'>10</BidQuantity>
            <EnergyPrice>32</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='AC'>
            <BidQuantity UnitOfMeasure='MW'>1</BidQuantity>
            <EnergyPrice>3200</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
      <Offer PresentedOffer='Yes' Purpose='Sell' Scope='CA'>
            <BidQuantity UnitOfMeasure='MW'>0</BidQuantity>
            <EnergyPrice>3600</EnergyPrice>
            <SourceOffer>SPOT</SourceOffer>
      </Offer>
    </BidSubmittal>
  </PIPTransaction>

</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittal MB*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<simpleType name="sourceOfferType">
		<restriction base="string">
			<enumeration value="UESS"/>
			<enumeration value="SPOT"/>
			<enumeration value="CONTR"/>
		</restriction>
	</simpleType>
	<simpleType name="scopeType">
		<restriction base="string">
			<enumeration value="RS"/>
			<enumeration value="AS"/>
			<enumeration value="AC"/>
			<enumeration value="CA"/>
			<enumeration value="GR1"/>
			<enumeration value="GR2"/>
			<enumeration value="GR3"/>
			<enumeration value="GR4"/>
		</restriction>
	</simpleType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="10000"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
```

```
</element>
<element name="TradingPartnerDirectory">
        <complexType>
                <sequence>
                        <element ref="pd:Sender"/>
                        <element ref="pd:Recipient"/>
                </sequence>
        </complexType>
</element>
<element name="Sender">
        <complexType>
                <sequence>
                        <element ref="pd:TradingPartner"/>
                </sequence>
        </complexType>
</element>
<element name="Recipient">
        <complexType>
                <sequence>
                        <element ref="pd:TradingPartner"/>
                </sequence>
        </complexType>
</element>
<element name="TradingPartner">
        <complexType>
                <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                </sequence>
                <attribute name="PartnerType" type="string"/>
        </complexType>
</element>
<element name="PIPTransaction">
        <complexType>
                <sequence>
                        <element ref="pd:BidSubmittal"/>
                </sequence>
        </complexType>
</element>
<element name="BidSubmittal">
        <complexType>
                <sequence>
                        <element name="Market" type="pd:marketBidType"/>
                        <element name="Date" type="pd:dateType"/>
                        <element name="Period" type="pd:periodIntervalType"/>
                        <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                        <element name="Offer" minOccurs="14" maxOccurs="14">
```

```
                                        <complexType>
                                            <sequence>
                                                <element name="BidQuantity">
                                                    <complexType>
                                                        <simpleContent>
                                                            <extension base="pd:localeDecimal">
                                                                <attribute name="UnitOfMeasure" type="pd:unitOfMeasureMWhType" use="required"/>
                                                            </extension>
                                                        </simpleContent>
                                                    </complexType>
                                                </element>
                                                <element name="EnergyPrice" type="pd:localeDecimal"/>
                                                <element name="SourceOffer" type="pd:sourceOfferType"/>
                                                <element name="ContractId" type="pd:localeDecimal" minOccurs="0"/>
                                            </sequence>
                                            <attribute name="PresentedOffer" type="pd:yesNoType" use="required"/>
                                            <attribute name="Purpose" type="pd:purposeTradeType" use="required"/>
                                            <attribute name="Scope" type="pd:scopeType" use="required"/>
                                        </complexType>
                                    </element>
                                </sequence>
                                <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
                                <attribute name="PredefinedOffer" type="pd:yesNoType" use="required"/>
                            </complexType>
                        </element>
</schema>
```

## *BidSubmittal AFRR*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='AFRRR00731144709' CreationDate='20200731144709' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>OEYYYYY</CompanyName>
        <CompanyIdentifier>OEYYYYY</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

      <PIPTransaction>
            <BidSubmittal MarketParticipantNumber="MYMarketParticipantNumber" PredefinedOffer="No">
                  <Market>AFRR</Market>
                  <Date>20221021</Date>
                  <Period>41</Period>
                  <UnitReferenceNumber>UNIT_AFRR</UnitReferenceNumber>
                  <BuyOffers>
                        <Offer Price="3,01" Scope="GR1" />
                  </BuyOffers>
                  <SellOffers>
                        <Offer Price="1,03" Scope="GR1" />
                  </SellOffers>
            </BidSubmittal>
      </PIPTransaction>
```

**APPENDIX A - Transaction Examples**

```
      <PIPTransaction>
            <BidSubmittal MarketParticipantNumber="MYMarketParticipantNumber" PredefinedOffer="No">
                  <Market>AFRR</Market>
                  <Date>20221021</Date>
                  <Period>80</Period>
                  <UnitReferenceNumber>UNIT_AFRR</UnitReferenceNumber>
                  <BuyOffers>
                        <Offer Price="4,01" Scope="GR1" />
                  </BuyOffers>
                  <SellOffers>
                        <Offer Price="1,03" Scope="GR1" />
                  </SellOffers>
            </BidSubmittal>
      </PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittal AFRR*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="10000"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
	<element name="Recipient">
		<complexType>
			<sequence>
```

```
                        <element ref="pd:TradingPartner"/>
                    </sequence>
                </complexType>
            </element>
            <element name="TradingPartner">
                <complexType>
                    <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                    </sequence>
                    <attribute name="PartnerType" type="string"/>
                </complexType>
            </element>
            <element name="PIPTransaction">
                <complexType>
                    <sequence>
                        <element ref="pd:BidSubmittal"/>
                    </sequence>
                </complexType>
            </element>
            <element name="BidSubmittal">
                <complexType>
                    <sequence>
                        <element name="Market" type="pd:marketBidType"/>
                        <element name="Date" type="pd:dateType"/>
                        <element name="Period" type="pd:PeriodIntervalType"/>
                        <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                        <element name="BuyOffers" minOccurs="1" maxOccurs="1">
                            <complexType>
                                <sequence>
                                    <element name="Offer" minOccurs="1" maxOccurs="1">
                                        <complexType>
                                            <attribute name="Price" type="pd:localeDecimal" use="required"/>
                                            <attribute name="Scope" type="pd:scopeTypeRR" use="required"/>
                                        </complexType>
                                    </element>
                                </sequence>
                            </complexType>
                        </element>
                        <element name="SellOffers" minOccurs="1" maxOccurs="1">
                            <complexType>
                                <sequence>
                                    <element name="Offer" minOccurs="1" maxOccurs="1">
                                        <complexType>
                                            <attribute name="Price" type="pd:localeDecimal" use="required"/>
                                            <attribute name="Scope" type="pd:scopeTypeRR" use="required"/>
                                        </complexType>
```

```
                                                    </element>
                                                </sequence>
                                            </complexType>
                                        </element>
                                    </sequence>
                                    <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
                                    <attribute name="PredefinedOffer" type="pd:yesNoType" use="required"/>
                                </complexType>
                            </element>
</schema>
```

## *BidSubmittal MFRR*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MFRRR00731144709' CreationDate='20200731144709' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>OEYYYYY</CompanyName>
        <CompanyIdentifier>OEYYYYY</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

      <PIPTransaction>
            <BidSubmittal MarketParticipantNumber="MYMarketParticipantNumber" PredefinedOffer="No">
                  <Market>MFRR</Market>
                  <Date>20221021</Date>
                  <Period>41</Period>
                  <UnitReferenceNumber>UNIT_MFRR</UnitReferenceNumber>
                  <BuyOffers>
                        <Offer Price="87,2"/>
                  </BuyOffers>
                  <SellOffers>
                        <Offer Price="100,03"/>
                  </SellOffers>
            </BidSubmittal>
      </PIPTransaction>
```

**APPENDIX A - Transaction Examples**

```
      <PIPTransaction>
            <BidSubmittal MarketParticipantNumber="MYMarketParticipantNumber" PredefinedOffer="No">
                  <Market>MFRR</Market>
                  <Date>20221021</Date>
                  <Period>80</Period>
                  <UnitReferenceNumber>UNIT_MFRR</UnitReferenceNumber>
                  <BuyOffers>
                        <Offer Price="67,01”/>
                  </BuyOffers>
                  <SellOffers>
                        <Offer Price="53"/>
                  </SellOffers>
            </BidSubmittal>
      </PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for BidSubmittal MFRR*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="10000"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
	<element name="Recipient">
		<complexType>
			<sequence>
```

```
                        <element ref="pd:TradingPartner"/>
                    </sequence>
                </complexType>
            </element>
            <element name="TradingPartner">
                <complexType>
                    <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                    </sequence>
                    <attribute name="PartnerType" type="string"/>
                </complexType>
            </element>
            <element name="PIPTransaction">
                <complexType>
                    <sequence>
                        <element ref="pd:BidSubmittal"/>
                    </sequence>
                </complexType>
            </element>
            <element name="BidSubmittal">
                <complexType>
                    <sequence>
                        <element name="Market" type="pd:marketBidType"/>
                        <element name="Date" type="pd:dateType"/>
                        <element name="Period" type="pd:PeriodIntervalType"/>
                        <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                        <element name="BuyOffers" minOccurs="1" maxOccurs="1">
                            <complexType>
                                <sequence>
                                    <element name="Offer" minOccurs="1" maxOccurs="1">
                                        <complexType>
                                            <attribute name="Price" type="pd:localeDecimal" use="required"/>
                                        </complexType>
                                    </element>
                                </sequence>
                            </complexType>
                        </element>
                        <element name="SellOffers" minOccurs="1" maxOccurs="1">
                            <complexType>
                                <sequence>
                                    <element name="Offer" minOccurs="1" maxOccurs="1">
                                        <complexType>
                                            <attribute name="Price" type="pd:localeDecimal" use="required"/>
                                        </complexType>
                                    </element>
                                </sequence>
```

```
                                        </complexType>
                                    </element>
                                </sequence>
                                <attribute name="MarketParticipantNumber" type="pd:lengthThirtyType" use="optional"/>
                                <attribute name="PredefinedOffer" type="pd:yesNoType" use="required"/>
                            </complexType>
                        </element>
</schema>
```

## *BidRevocation*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='BidRevoke012ACUN2002050918' CreationDate='20020509183738' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>7456474854</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

   <PIPTransaction>
      <BidRevocation PredefinedOffer = "No">
         <Market>MGP</Market>
         <Date>20250721</Date>
         <Period>1</Period>
         <TimeResolution>PT15</TimeResolution>
         <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
         <MarketParticipantReferenceNumber>AX0001</MarketParticipantReferenceNumber>
         <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      </BidRevocation>
   </PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for BidRevocation*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
```

```
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:BidRevocation"/>
            </sequence>
        </complexType>
    </element>
    <element name="BidRevocation">
        <complexType>
            <sequence>
                <element name="Market" type="pd:marketType"/>
                <element name="Date" type="pd:dateType"/>
                <element name="Period" type="pd:periodIntervalType"/>
                <element name="TimeResolution" type="pd:timeResolutionType" minOccurs="0" maxOccurs="1"/>
                <element name="MarketParticipantNumber" type="pd:lengthThirtyType"/>
                <element name="MarketParticipantReferenceNumber" type="pd:lengthThirtyType" minOccurs="0" maxOccurs="1"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
            </sequence>
            <attribute name="PredefinedOffer" type="pd:yesNoType" use="required"/>
        </complexType>
    </element>
</schema>
```

## *BidRevocationBlock*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='BidRevoke012ACUN2002050918' CreationDate='20020509183738' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>7456474854</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

   <PIPTransaction>
      <BidRevocationBlock>
         <Market>MGP</Market>
         <Date>20020721</Date>
         <TimeResolution>PT60</TimeResolution >
         <UnitReferenceNumber>UnC2</UnitReferenceNumber>
         <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
         <MarketParticipantReferenceNumber>AX0001</MarketParticipantReferenceNumber>
      </BidRevocationBlock>
   </PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for BidRevocationBlock*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
```

## APPENDIX A - Transaction Examples

```
            <complexType>
                <sequence>
                    <element ref="pd:TradingPartner"/>
                </sequence>
            </complexType>
        </element>
        <element name="TradingPartner">
            <complexType>
                <sequence>
                    <element name="CompanyName" type="string"/>
                    <element name="CompanyIdentifier" type="string"/>
                </sequence>
                <attribute name="PartnerType" type="string"/>
            </complexType>
        </element>
        <element name="PIPTransaction">
            <complexType>
                <sequence>
                    <element ref="pd:BidRevocationBlock"/>
                </sequence>
            </complexType>
        </element>
        <element name="BidRevocationBlock">
            <complexType>
                <sequence>
                    <element name="Market" type="pd:marketAllowedTypeBlock"/>
                    <element name="Date" type="pd:validDateType"/>
                    <element name="TimeResolution" type="pd:timeResolutionType" minOccurs="0" maxOccurs="1"/>
                    <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                    <element name="MarketParticipantNumber" type="pd:lengthThirtyType"/>
                    <element name="MarketParticipantReferenceNumber" type="pd:lengthThirtyType" minOccurs="0" maxOccurs="1"/>
                </sequence>
            </complexType>
        </element>
</schema>
```

## *FifteenMinuteSchedule MSD1/2/3/4/5/6*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='FiftMin20031209175846' CreationDate='20031209175846' Version='1.0'>

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>PRIMO OPERATORE</CompanyName>
                        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

  <PIPTransaction ReferenceNumber ="92720546478906" InboundMessageCreationDate ="20090929" InboundMessageCreationTime
="220027268">

    <FifteenMinuteSchedule Type='Original'>

       <Market>MSD1</Market>
       <Date>20031210</Date>
       <UnitReferenceNumber>IdAuBaronia</UnitReferenceNumber>
      <HourDetail>
        <Hour>1</Hour>
          <Quantity QuarterInterval='1'>511,75</Quantity>
          <Quantity QuarterInterval='2'>511,75</Quantity>
          <Quantity QuarterInterval='3'>511,75</Quantity>
```

```
          <Quantity QuarterInterval='4'>511,75</Quantity>
      </HourDetail>
      <HourDetail>
        <Hour>2</Hour>
          <Quantity QuarterInterval='1'>511,75</Quantity>
          <Quantity QuarterInterval='2'>511,75</Quantity>
          <Quantity QuarterInterval='3'>511,75</Quantity>
          <Quantity QuarterInterval='4'>511,75</Quantity>
      </HourDetail>
      <HourDetail>
        <Hour>3</Hour>
          <Quantity QuarterInterval='1'>511,75</Quantity>
          <Quantity QuarterInterval='2'>511,75</Quantity>
          <Quantity QuarterInterval='3'>511,75</Quantity>
          <Quantity QuarterInterval='4'>511,75</Quantity>
      </HourDetail>
```

- 
- [etc.]
- 

```
      <HourDetail>
        <Hour>23</Hour>
          <Quantity QuarterInterval='1'>-5</Quantity>
          <Quantity QuarterInterval='2'>-5</Quantity>
          <Quantity QuarterInterval='3'>-5</Quantity>
          <Quantity QuarterInterval='4'>-5</Quantity>
      </HourDetail>
      <HourDetail>
        <Hour>24</Hour>
          <Quantity QuarterInterval='1'>-9,687</Quantity>
          <Quantity QuarterInterval='2'>-10</Quantity>
          <Quantity QuarterInterval='3'>-9,687</Quantity>
          <Quantity QuarterInterval='4'>-9,687</Quantity>
      </HourDetail>
    </FifteenMinuteSchedule>

  </PIPTransaction>

</PIPEDocument>
```

## *PIPEDocument.xsd for FifteenMinuteSchedule MSD1/2/3/4/5/6*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
```

```
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:FifteenMinuteSchedule"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="optional"/>
            <attribute name="InboundMessageCreationDate" type="pd:creationDateType" use="optional"/>
            <attribute name="InboundMessageCreationTime" type="pd:creationTimeMillisecsType" use="optional"/>
        </complexType>
    </element>
    <element name="FifteenMinuteSchedule">
        <complexType>
            <sequence>
                <element name="Market" type="pd:fifteenMinuteScheduleMarketType"/>
                <element name="Date" type="pd:dateType"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                <element name="HourDetail" minOccurs="23" maxOccurs="25">
                    <complexType>
                        <sequence>
                            <element name="Hour" type="pd:hourIntervalType"/>
                            <element name="Quantity" minOccurs="4" maxOccurs="4">
                                <complexType>
                                    <simpleContent>
                                        <extension base="pd:localeDecimal">
                                            <attribute name="QuarterInterval" type="pd:quarterIntervalType" use="required"/>
                                            <attribute name="Minute" type="pd:minuteType" use="optional"/>
                                        </extension>
                                    </simpleContent>
                                </complexType>
                            </element>
                        </sequence>
                    </complexType>
```

```
                </element>
            </sequence>
            <attribute name="MarketParticipantNumber" type="string" use="optional"/>
            <attribute name="Type" type="pd:fifteenMinutesScheduleType" use="required"/>
        </complexType>
    </element>
</schema>
```

## *FeasibilityInterval*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MGPmPRIMOP20020516165855' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction ReferenceNumber="9995894177745914" InboundMessageCreationDate="20210527"
InboundMessageCreationTime="173708301"><FeasibilityIntervals >
  <Date>20210528</Date>
  <Market>MSD1</Market>
  <UnitFeasibilityIntervals>
    <UnitFeasibilityInterval>
      <UnitReferenceNumber>UP_XXXXXX</UnitReferenceNumber>
      <Period FMax="13,19" FMin="0" V="1" />
      <Period FMax="40" FMin="0" V="2" />
      <Period FMax="40" FMin="0" V="3" />
      <Period FMax="40" FMin="0" V="4" />
      <Period FMax="40" FMin="0" V="5" />
      <Period FMax="40" FMin="0" V="6" />
      <Period FMax="0" FMin="0" V="7" />
```

```
      <Period FMax="0" FMin="0" V="8" />
      <Period FMax="13,1" FMin="0" V="9" />
      <Period FMax="40" FMin="0" V="10" />
      <Period FMax="40" FMin="0" V="11" />
      <Period FMax="40" FMin="0" V="12" />
      <Period FMax="40" FMin="0" V="13" />
      <Period FMax="40" FMin="0" V="14" />
      <Period FMax="0" FMin="0" V="15" />
      <Period FMax="0" FMin="0" V="16" />
      <Period FMax="40" FMin="0" V="17" />
      <Period FMax="40" FMin="0" V="18" />
      <Period FMax="40" FMin="0" V="19" />
      <Period FMax="40" FMin="0" V="20" />
      <Period FMax="40" FMin="0" V="21" />
      <Period FMax="40" FMin="0" V="22" />
      <Period FMax="0" FMin="0" V="23" />
      <Period FMax="0" FMin="0" V="24" />
      <Period FMax="13,1" FMin="0" V="25" />
      <Period FMax="40" FMin="0" V="26" />
      <Period FMax="40" FMin="0" V="27" />
      <Period FMax="40" FMin="0" V="28" />
      <Period FMax="40" FMin="0" V="29" />
      <Period FMax="40" FMin="0" V="30" />
      <Period FMax="0" FMin="0" V="31" />
      <Period FMax="0" FMin="0" V="32" />
    </UnitFeasibilityInterval>
  </UnitFeasibilityIntervals>
</FeasibilityIntervals>
</PIPTransaction>

  <PIPTransaction ReferenceNumber="9995894177745915" InboundMessageCreationDate="20210527"
InboundMessageCreationTime="173708301"><FeasibilityIntervals >
  <Date>20210528</Date>
  <Market>MSD1</Market>
  <UnitFeasibilityIntervals>
    <UnitFeasibilityInterval>
      <UnitReferenceNumber>UP_YYYYYY</UnitReferenceNumber>
      <Period FMax="-440" FMin="-587" V="1" />
      <Period FMax="-440" FMin="-587" V="2" />
      <Period FMax="-440" FMin="-587" V="3" />
```

```
      <Period FMax="-440" FMin="-587" V="4" />
      <Period FMax="0" FMin="-587" V="5" />
      <Period FMax="0" FMin="-587" V="6" />
      <Period FMax="0" FMin="-587" V="7" />
      <Period FMax="476" FMin="0" V="8" />
      <Period FMax="-440" FMin="-587" V="9" />
      <Period FMax="-440" FMin="-587" V="10" />
      <Period FMax="-440" FMin="-587" V="11" />
      <Period FMax="-440" FMin="-587" V="12" />
      <Period FMax="0" FMin="-587" V="13" />
      <Period FMax="0" FMin="-587" V="14" />
      <Period FMax="0" FMin="-587" V="15" />
      <Period FMax="476" FMin="0" V="16" />
      <Period FMax="-440" FMin="-587" V="17" />
      <Period FMax="-440" FMin="-587" V="18" />
      <Period FMax="-440" FMin="-587" V="19" />
      <Period FMax="-440" FMin="-587" V="20" />
      <Period FMax="0" FMin="-587" V="21" />
      <Period FMax="0" FMin="-587" V="22" />
      <Period FMax="0" FMin="-587" V="23" />
      <Period FMax="476" FMin="0" V="24" />
      <Period FMax="-440" FMin="-587" V="25" />
      <Period FMax="-440" FMin="-587" V="26" />
      <Period FMax="-440" FMin="-587" V="27" />
      <Period FMax="-440" FMin="-587" V="28" />
      <Period FMax="0" FMin="-587" V="29" />
      <Period FMax="0" FMin="-587" V="30" />
      <Period FMax="0" FMin="-587" V="31" />
      <Period FMax="476" FMin="0" V="32" />
    </UnitFeasibilityInterval>
  </UnitFeasibilityIntervals>
</FeasibilityIntervals>
</PIPTransaction>

</PIPEDocument>
```

## *PIPEDocument.xsd (for FeasibilityInterval)*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:FeasibilityIntervals"/>
            </sequence>
        </complexType>
    </element>
    <element name="FeasibilityIntervals">
        <complexType>
            <sequence>
                <element name="Date" type="pd:dateType"/>
                <element name="Market" type="pd:FeasibilityMarketType"/>
                <element name="UnitFeasibilityIntervals" minOccurs="1" maxOccurs="1" >
                    <complexType>
                        <sequence>
                            <element name="UnitFeasibilityInterval" minOccurs="1" maxOccurs="1" >
                                <complexType>
                                    <sequence>
                                        <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                                        <element name="Period" minOccurs="1" maxOccurs="100">
                                            <complexType>
                                                <attribute name="V" use="required type="pd:periodIntervalType" use="required"/>
                                                <attribute name="FMin" use="required type="pd:localeDecimal" use="required"/>
                                                <attribute name="FMax" use="required type="pd:localeDecimal" use="required"/>
                                            </complexType>
                                        </element>
                                    </sequence>
                                </complexType>
                            </element>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
```

```
        </complexType>
    </element>
</schema>
```

## *Essentiality*

```
<?xml version='1.0' encoding='ISO-8859-1'?>

<PIPEDocument xmlns='urn:XML-PIPE'
              xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
              xsi:schemaLocation='urn:XML-PIPE PIPEDocument.xsd'
              ReferenceNumber='MGPmPRIMOP200205161855' CreationDate='20020516165855' Version='1.0'>

  <TradingPartnerDirectory>
    <Sender>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>Primo operatore</CompanyName>
        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
      </TradingPartner>
    </Sender>
    <Recipient>
      <TradingPartner PartnerType='Distributor'>
        <CompanyName>GME</CompanyName>
        <CompanyIdentifier>IDGME</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction ReferenceNumber="9995894177745914" InboundMessageCreationDate="20210527"
InboundMessageCreationTime="173708301"><Essentiality>
  <Date>20240528</Date>
  <Market>MGP</Market>
  <EssentialityIntervals>
    <EssentialityInterval>
      <UnitReferenceNumber>UP_XXXXXX</UnitReferenceNumber>
      <Period V="7" />
      <Period V="8" />
    </EssentialityInterval>
  </EssentialityIntervals>
</Essentiality>
</PIPTransaction>
```

## APPENDIX A - Transaction Examples

```
  <PIPTransaction ReferenceNumber="9995894177745914" InboundMessageCreationDate="20210527"
InboundMessageCreationTime="173708301"><Essentiality>
  <Date>20240528</Date>
  <Market>MGP</Market>
  <EssentialityIntervals>
    <EssentialityInterval>
      <UnitReferenceNumber>UP_YYYYYY</UnitReferenceNumber>
      <Period V="10" />
      <Period V="13" />
    </EssentialityInterval>
  </EssentialityIntervals>
</Essentiality>
</PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd (for Essentiality)*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:Essentiality"/>
            </sequence>
        </complexType>
    </element>
    <element name=" Essentiality ">
        <complexType>
            <sequence>
                <element name="Date" type="pd:dateType"/>
                <element name="Market" type="pd:conventionalPriceMarketType"/>
                <element name="EssentialityIntervals" minOccurs="1" maxOccurs="1" >
                    <complexType>
                        <sequence>
                            <element name="EssentialityInterval" minOccurs="1" maxOccurs="1" >
                                <complexType>
                                    <sequence>
                                        <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                                        <element name="Period" minOccurs="1" maxOccurs="100">
                                            <complexType>
                                                <attribute name="V" use="required type="pd:periodIntervalType" use="required"/>
                                            </complexType>
                                        </element>
                                    </sequence>
                                </complexType>
                            </element>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </complexType>
    </element>
```

```
</schema>
```

## *BidNotification for MGP/MI*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="000964643" CreationDate="20020516175054" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>PRIMO OPERATORE</CompanyName>
                        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction Status ="Accept" ReferenceNumber ="21360001047256" InboundMessageCreationDate ="20020516"
InboundMessageCreationTime ="174759016">
            <BidNotification Purpose ="Buy" PartialAcceptedQuantityIndicator ="No">
                  <Market>MGP</Market>
                  <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
                  <GMEReferenceNumber>21360546158131</GMEReferenceNumber>
                  <Date>20250320</Date>
                  <Period>24</Period>
                  <TimeResolution>PT15</TimeResolution>
                  <UnitReferenceNumber>UnC2</UnitReferenceNumber>
                  <AwardedQuantity UnitOfMeasure ="MW">1,2</AwardedQuantity>
                  <AwardedPrice>11,88</AwardedPrice>
                  <AwardedValue>3,56</AwardedValue>
            </BidNotification>
```

```
      </PIPTransaction>
      <PIPTransaction Status ="Accept" ReferenceNumber ="21360001047257" InboundMessageCreationDate ="20020516"
InboundMessageCreationTime ="174759016">
            <BidNotification Purpose ="Buy" PartialAcceptedQuantityIndicator ="No">
                  <Market>MGP</Market>
                  <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
                  <GMEReferenceNumber>21360546158130</GMEReferenceNumber>
                  <Date>20250320</Date>
                  <Period>24</Period>
                  <TimeResolution>PT15</TimeResolution>
                  <UnitReferenceNumber>UnC2</UnitReferenceNumber>
                  <AwardedQuantity UnitOfMeasure ="MW">2,7</AwardedQuantity>
                  <AwardedPrice>11,88</AwardedPrice>
                  <AwardedValue>8,02</AwardedValue>
            </BidNotification>
      </PIPTransaction>
```

- 
- [etc.]
- 

```
      <PIPTransaction Status ="Accept" ReferenceNumber ="21360001047277" InboundMessageCreationDate ="20020516"
InboundMessageCreationTime ="174759016">
            <BidNotification Purpose ="Sell" PartialAcceptedQuantityIndicator ="No">
                  <Market>MGP</Market>
                  <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
                  <GMEReferenceNumber>21360546158155</GMEReferenceNumber>
                  <Date>20250320</Date>
                  <Period>24</Period>
                  <TimeResolution>PT15</TimeResolution>
                  <UnitReferenceNumber>UnP2</UnitReferenceNumber>
                  <AwardedQuantity UnitOfMeasure ="MW">69,4</AwardedQuantity>
                  <AwardedPrice>11,88</AwardedPrice>
                  <AwardedValue>-206,12</AwardedValue>
            </BidNotification>
      </PIPTransaction>

      <PIPTransaction Status ="Reject" ReferenceNumber ="21360001047283" InboundMessageCreationDate ="20020516"
InboundMessageCreationTime ="174759016">
            <BidNotification Purpose ="Sell" PredefinedOffer ="No">
```

```
                  <RejectInformation>
                        <Reason>Unaccepted</Reason>
                        <ReasonText>Not accepted by market algorithm</ReasonText>
                  </RejectInformation>
                  <Market>MGP</Market>
                  <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
                  <GMEReferenceNumber>21360546158202</GMEReferenceNumber>
                  <Date>20250320</Date>
                  <Period>6</Period>
                  <TimeResolution>PT60</TimeResolution>
                  <UnitReferenceNumber>UnP2</UnitReferenceNumber>
                  <BidQuantity UnitOfMeasure ="MW">62,9</BidQuantity>
                  <EnergyPrice>12,60</EnergyPrice>
            </BidNotification>
      </PIPTransaction>

      <PIPTransaction Status ="Reject" ReferenceNumber ="21360001047287" InboundMessageCreationDate ="20020516"
InboundMessageCreationTime ="174759016">
            <BidNotification Purpose ="Sell" PredefinedOffer ="No">
                  <RejectInformation>
                        <Reason>Unaccepted</Reason>
                        <ReasonText>Not accepted by market algorithm</ReasonText>
                  </RejectInformation>
                  <Market>MGP</Market>
                  <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
                  <GMEReferenceNumber>21360546158203</GMEReferenceNumber>
                  <Date>20250320</Date>
                  <Period>24</Period>
                  <TimeResolution>PT15</TimeResolution>
                  <UnitReferenceNumber>UnP2</UnitReferenceNumber>
                  <BidQuantity UnitOfMeasure ="MW">55,1</BidQuantity>
                  <EnergyPrice>15,25</EnergyPrice>
            </BidNotification>
      </PIPTransaction></PIPEDocument>

</PIPEDocument>
```

## *BidNotification for MSD*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="101462746" CreationDate="20091218110434" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>PRIMO OPERATORE</CompanyName>
                        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="93520515564276" OriginalReferenceNumber ="93520515441500"
InboundMessageCreationDate ="20091218" InboundMessageCreationTime ="110414532">
            <BidNotification Scope ="RS" Status ="Accept" Purpose ="Buy" PartialAcceptedQuantityIndicator ="Yes">
                  <Market>MSD1</Market>
                  <GMEReferenceNumber>93520515441500</GMEReferenceNumber>
                  <VerifiedSourceOffer>SPOT</VerifiedSourceOffer>
                  <ContractID>0</ContractID>
                  <Date>20251219</Date>
                  <Period>1</Period>
                  <TimeResolution>PT15</TimeResolution>
                  <UnitReferenceNumber> UnP2</UnitReferenceNumber>
                  <AwardedQuantity UnitOfMeasure ="MW">3,001</AwardedQuantity>
                  <AwardedPrice>2,000000</AwardedPrice>
                  <AwardedValue>1,50</AwardedValue>
                  <ReservedQuantity UnitOfMeasure ="MW">2,000</ReservedQuantity>
```

```
            </BidNotification>
      </PIPTransaction>
</PIPEDocument>
```

## *BidNotification for MB*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="101462746" CreationDate="20091218110434" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>PRIMO OPERATORE</CompanyName>
                        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="93520515564276" OriginalReferenceNumber ="93520515441500"
InboundMessageCreationDate ="20091218" InboundMessageCreationTime ="110414532">
            <BidNotification Scope ="RS" BAType ="Netting" Status ="Accept" Purpose ="Buy" Quarter ="1"
PartialAcceptedQuantityIndicator ="No">
                  <Market>MB</Market>
                  <GMEReferenceNumber>93520517441500</GMEReferenceNumber>
                  <VerifiedSourceOffer>MSD</VerifiedSourceOffer>
                  <ContractID>0</ContractID>
                  <Date>20251219</Date>
                  <Period>1</Period>
                  <TimeResolution>PT15</TimeResolution>
                  <UnitReferenceNumber> UnP2</UnitReferenceNumber>
                  <AwardedQuantity UnitOfMeasure ="MW">3,001</AwardedQuantity>
                  <AwardedPrice>2,000000</AwardedPrice>
                  <AwardedValue>1,50</AwardedValue>
```

```
            </BidNotification>
      </PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for BidNotification  Accept-Reject*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<complexType name="tyReservedQuantity">
		<simpleContent>
			<extension base="pd:localeDecimal">
				<attribute name="UnitOfMeasure" type="pd:unitOfMeasureBidType" use="optional"/>
			</extension>
		</simpleContent>
	</complexType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
```

```
                        <element ref="pd:TradingPartner"/>
                    </sequence>
                </complexType>
            </element>
            <element name="Recipient">
                <complexType>
                    <sequence>
                        <element ref="pd:TradingPartner"/>
                    </sequence>
                </complexType>
            </element>
            <element name="TradingPartner">
                <complexType>
                    <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                    </sequence>
                    <attribute name="PartnerType" type="string"/>
                </complexType>
            </element>
            <element name="PIPTransaction">
                <complexType>
                    <sequence>
                        <element ref="pd:BidNotification"/>
                    </sequence>
                    <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
                    <attribute name="OriginalReferenceNumber" type="pd:lengthThirtyType" use="optional"/>
                    <attribute name="InboundMessageCreationDate" type="pd:creationDateType" use="optional"/>
                    <attribute name="InboundMessageCreationTime" type="pd:creationTimeMillisecsType" use="optional"/>
                </complexType>
            </element>
            <element name="BidNotification">
                <complexType>
                    <choice>
                        <sequence>
                            <element name="Market" type="pd:marketType"/>
                            <element name="MarketParticipantNumber" type="pd:lengthThirtyType" minOccurs="0"/>
                            <element name="GMEReferenceNumber" type="pd:lengthThirtyType"/>
                            <element name="VerifiedSourceOffer" type="pd:lengthThirtyType" minOccurs="0"/>
                            <element name="ContractID" type="pd:lengthThirtyType" minOccurs="0"/>
                            <element name="Date" type="pd:dateType"/>
                            <element name="Period" type="pd:periodIntervalType"/>
                            <element name="TimeResolution" type="pd:timeResolutionType"/>
                            <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                            <element name="AwardedQuantity">
                                <complexType>
                                    <simpleContent>
```

```
                                        <extension base="pd:localeDecimal">
                                            <attribute name="UnitOfMeasure" type="pd:unitOfMeasureBidType" use="required"/>
                                        </extension>
                                    </simpleContent>
                                </complexType>
                            </element>
                            <element name="AwardedPrice" type="pd:localeDecimal"/>
                            <element name="AwardedValue" type="pd:localeDecimal"/>
                            <element name="ReservedQuantity" type="pd:tyReservedQuantity" minOccurs="0"/>
                        </sequence>
                        <sequence>
                            <element name="RejectInformation">
                                <complexType>
                                    <sequence>
                                        <element name="Reason" type="string"/>
                                        <element name="ReasonText" type="pd:lengthFiveHundredType" minOccurs="0"/>
                                    </sequence>
                                </complexType>
                            </element>
                            <element name="Market" type="pd:marketType"/>
                            <element name="MarketParticipantNumber" type="pd:lengthThirtyType" minOccurs="0"/>
                            <element name="GMEReferenceNumber" type="pd:lengthThirtyType"/>
                            <element name="VerifiedSourceOffer" type="pd:lengthThirtyType" minOccurs="0"/>
                            <element name="ContractID" type="pd:lengthThirtyType" minOccurs="0"/>
                            <element name="Date" type="pd:dateType"/>
                            <element name="Period" type="pd:periodIntervalType"/>
                            <element name="TimeResolution" type="pd:timeResolutionType"/>
                            <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                            <element name="BidQuantity">
                                <complexType>
                                    <simpleContent>
                                        <extension base="pd:localeDecimal">
                                            <attribute name="UnitOfMeasure" type="pd:unitOfMeasureBidType" use="required"/>
                                        </extension>
                                    </simpleContent>
                                </complexType>
                            </element>
                            <element name="ReservedQuantity" type="pd:tyReservedQuantity" minOccurs="0"/>
                            <element name="EnergyPrice" type="pd:localeDecimal"/>
                        </sequence>
                    </choice>
                    <attribute name="Status" type="pd:statusTransactionType" use="required"/>
                    <attribute name="Purpose" type="pd:purposeTradeType" use="required"/>
                    <attribute name="Scope" type="pd:scopeType" use="optional"/>
                    <attribute name="Quarter" type="pd:quarterType" use="optional"/>
                    <attribute name="BAType" type="pd:bAType" use="optional"/>
                    <attribute name="BalancedReferenceNumber" type="pd:lengthThirtyType" use="optional"/>
```

```
                        <attribute name="PredefinedOffer" type="pd:yesNoType" use="optional"/>
                        <attribute name="PartialAcceptedQuantityIndicator" type="pd:yesNoType" use="optional"/>
                    </complexType>
                </element>
</schema>
```

## *UnitSchedules*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="000964700" CreationDate="20020516180231" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GRTN</CompanyName>
                        <CompanyIdentifier>2093842039</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="21360001052062" InboundMessageCreationDate ="20020516" InboundMessageCreationTime
="180226280">
            <UnitSchedule Type ="Preliminary" MarketParticipantNumber ="PRIMOP">
                  <Market>MGP</Market>
                  <Date>20250320</Date>
                  <UnitReferenceNumber>UnC2</UnitReferenceNumber>
                  <ReferenceMarketParticipantNumber>PRIMOP</ReferenceMarketParticipantNumber>
                  <Quantity Period ="1" TimeResolution="PT15" UnitOfMeasure ="MW">-8,3</Quantity>
                  <Quantity Period ="2" TimeResolution="PT15" UnitOfMeasure ="MW">-8,1</Quantity>
                  <Quantity Period ="3" TimeResolution="PT15" UnitOfMeasure ="MW">-9,1</Quantity>
                  <Quantity Period ="4" TimeResolution="PT15" UnitOfMeasure ="MW">-7,7</Quantity>
                  <Quantity Period ="5" TimeResolution="PT15" UnitOfMeasure ="MW">-9,0</Quantity>
                  <Quantity Period ="6" TimeResolution="PT15" UnitOfMeasure ="MW">-8,0</Quantity>
                  <Quantity Period ="7" TimeResolution="PT15" UnitOfMeasure ="MW">-8,1</Quantity>
                  <Quantity Period ="8" TimeResolution="PT15" UnitOfMeasure ="MW">-8,3</Quantity>
```

```
                  <Quantity Period ="9" TimeResolution="PT15" UnitOfMeasure ="MW">-8,4</Quantity>
                  <Quantity Period ="10" TimeResolution="PT15" UnitOfMeasure ="MW">-8,8</Quantity>
                  <Quantity Period ="11" TimeResolution="PT15" UnitOfMeasure ="MW">-5,9</Quantity>
                  <Quantity Period ="12" TimeResolution="PT15" UnitOfMeasure ="MW">-5,9</Quantity>
                  <Quantity Period ="13" TimeResolution="PT15" UnitOfMeasure ="MW">-9,8</Quantity>
                  <Quantity Period ="14" TimeResolution="PT15" UnitOfMeasure ="MW">-5,8</Quantity>
                  <Quantity Period ="15" TimeResolution="PT15" UnitOfMeasure ="MW">-9,8</Quantity>
                  <Quantity Period ="16" TimeResolution="PT15" UnitOfMeasure ="MW">-9,9</Quantity>
                  <Quantity Period ="17" TimeResolution="PT15" UnitOfMeasure ="MW">-9,8</Quantity>
                  <Quantity Period ="18" TimeResolution="PT15" UnitOfMeasure ="MW">-9,7</Quantity>
                  <Quantity Period ="19" TimeResolution="PT15" UnitOfMeasure ="MW">-9,7</Quantity>
                  <Quantity Period ="20" TimeResolution="PT15" UnitOfMeasure ="MW">-9,1</Quantity>
                  <Quantity Period ="21" TimeResolution="PT15" UnitOfMeasure ="MW">-9,1</Quantity>
                  ……

                  ……

                  ……

                  <Quantity Period ="94" TimeResolution="PT15" UnitOfMeasure ="MW">-9,7</Quantity>
                  <Quantity Period ="95" TimeResolution="PT15" UnitOfMeasure ="MW">-9,1</Quantity>
                  <Quantity Period ="96" TimeResolution="PT15" UnitOfMeasure ="MW">-8,5</Quantity>
            </UnitSchedule>
      </PIPTransaction>

      <PIPTransaction ReferenceNumber ="21360001052063" InboundMessageCreationDate ="20020516" InboundMessageCreationTime
="180226280">
            <UnitSchedule Type ="Preliminary" MarketParticipantNumber ="PRIMOP">
                  <Market>MGP</Market>
                  <Date>20250320</Date>
                  <UnitReferenceNumber>UnP2</UnitReferenceNumber>
                  <ReferenceMarketParticipantNumber>PRIMOP</ReferenceMarketParticipantNumber>
                  <Quantity Period ="1" TimeResolution="PT15" UnitOfMeasure ="MW">18,3</Quantity>
                  <Quantity Period ="2" TimeResolution="PT15" UnitOfMeasure ="MW">7,1</Quantity>
                  <Quantity Period ="3" TimeResolution="PT15" UnitOfMeasure ="MW">5,1</Quantity>
                  <Quantity Period ="4" TimeResolution="PT15" UnitOfMeasure ="MW">7,7</Quantity>
                  <Quantity Period ="5" TimeResolution="PT15" UnitOfMeasure ="MW">9,0</Quantity>
                  <Quantity Period ="6" TimeResolution="PT15" UnitOfMeasure ="MW">9,3</Quantity>
                  <Quantity Period ="7" TimeResolution="PT15" UnitOfMeasure ="MW">8,1</Quantity>
                  <Quantity Period ="8" TimeResolution="PT15" UnitOfMeasure ="MW">8,3</Quantity>
```

```
            <Quantity Period ="9" TimeResolution="PT15" UnitOfMeasure ="MW">8,4</Quantity>
            <Quantity Period ="10" TimeResolution="PT15" UnitOfMeasure ="MW">8,8</Quantity>
            <Quantity Period ="11" TimeResolution="PT15" UnitOfMeasure ="MW">5,9</Quantity>
            <Quantity Period ="12" TimeResolution="PT15" UnitOfMeasure ="MW">5,9</Quantity>
            <Quantity Period ="13" TimeResolution="PT15" UnitOfMeasure ="MW">9,8</Quantity>
            <Quantity Period ="14" TimeResolution="PT15" UnitOfMeasure ="MW">5,8</Quantity>
            <Quantity Period ="15" TimeResolution="PT15" UnitOfMeasure ="MW">9,8</Quantity>
            <Quantity Period ="16" TimeResolution="PT15" UnitOfMeasure ="MW">9,9</Quantity>
            <Quantity Period ="17" TimeResolution="PT15" UnitOfMeasure ="MW">9,8</Quantity>
            <Quantity Period ="18" TimeResolution="PT15" UnitOfMeasure ="MW">8,7</Quantity>
            <Quantity Period ="19" TimeResolution="PT15" UnitOfMeasure ="MW">9,7</Quantity>
            <Quantity Period ="20" TimeResolution="PT15" UnitOfMeasure ="MW">9,1</Quantity>
            <Quantity Period ="21" TimeResolution="PT15" UnitOfMeasure ="MW">9,1</Quantity>
            ……

            ……

            ……

            <Quantity Period ="94" TimeResolution="PT15" UnitOfMeasure ="MW">9,7</Quantity>
            <Quantity Period ="95" TimeResolution="PT15" UnitOfMeasure ="MW">9,1</Quantity>
            <Quantity Period ="96" TimeResolution="PT15" UnitOfMeasure ="MW">8,5</Quantity>
      </UnitSchedule>
</PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for UnitSchedules*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:UnitSchedule"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="InboundMessageCreationDate" type="pd:creationDateType" use="optional"/>
            <attribute name="InboundMessageCreationTime" type="pd:creationTimeMillisecsType" use="optional"/>
        </complexType>
    </element>
    <element name="UnitSchedule">
        <complexType>
            <sequence>
                <element name="Market" type="pd:marketType"/>
                <element name="Date" type="pd:dateType"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                <element name="ReferenceMarketParticipantNumber" type="string"/>
                <element name="UnbalancedMarketParticipantNumber" type="string" minOccurs="0"/>
                <element name="Quantity" maxOccurs="100">
                    <complexType>
                        <simpleContent>
                            <extension base="pd:localeDecimal">
                                <attribute name="TimeResolution" type="pd:timeResolutionType" use="required"/>
                                <attribute name="Period" type="pd:periodIntervalType" use="required"/>
                                <attribute name="UnitOfMeasure" type="pd:unitOfMeasureMWhType" use="required"/>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
            </sequence>
            <attribute name="MarketParticipantNumber" type="string" use="required"/>
            <attribute name="Type" type="pd:unitScheduleType" use="required"/>
        </complexType>
```

```
    </element>
</schema>
```

## *ZoneInformation*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="002424369" CreationDate="20040912164324" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>OEOP1</CompanyName>
                        <CompanyIdentifier>OEOP1</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="42560017207715" InboundMessageCreationDate ="20040912" InboundMessageCreationTime
="164234996">
            <ZoneInformation>
                  <Date>20240913</Date>
                  <MarketDetail>
                        <Market>MGP</Market>
                        <InterZonalDetail>
                              <FromZone>NORD</FromZone>
                              <ToZone>CNOR</ToZone>
                              <InterZonalLimits>
                                    <Period>1</Period>
                                    <ConnectionLimit>1200</ConnectionLimit>
                                    <ConnectionCoefficient>1</ConnectionCoefficient>
                              </InterZonalLimits>
                              <InterZonalLimits>
```

```
                        <Period>2</Period>
                        <ConnectionLimit>1200</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
                  <InterZonalLimits>
                        <Period>3</Period>
                        <ConnectionLimit>1200</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
                  <InterZonalLimits>
                        <Period>4</Period>
                        <ConnectionLimit>1200</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
                  <InterZonalLimits>
                        <Period>5</Period>
                        <ConnectionLimit>1200</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
                  <InterZonalLimits>
                        <Period>6</Period>
                        <ConnectionLimit>1200</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
```

- 
- [etc.]
- 

```
                  <InterZonalLimits>
                        <Period>95</Period>
                        <ConnectionLimit>2500</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
                  <InterZonalLimits>
                        <Period>96</Period>
                        <ConnectionLimit>2500</ConnectionLimit>
                        <ConnectionCoefficient>1</ConnectionCoefficient>
                  </InterZonalLimits>
            </InterZonalDetail>
```

```
<InterZonalDetail>
      <FromZone>NORD</FromZone>
      <ToZone>AUST</ToZone>
      <InterZonalLimits>
            <Period>1</Period>
            <ConnectionLimit>1200</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
      </InterZonalLimits>
      <InterZonalLimits>
            <Period>2</Period>
            <ConnectionLimit>1200</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
      </InterZonalLimits>
      <InterZonalLimits>
            <Period>3</Period>
            <ConnectionLimit>600</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
      </InterZonalLimits>
      <InterZonalLimits>
            <Period>4</Period>
            <ConnectionLimit>1200</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
      </InterZonalLimits>
      <InterZonalLimits>
            <Period>5</Period>
            <ConnectionLimit>1210</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
      </InterZonalLimits>
      <InterZonalLimits>
            <Period>6</Period>
            <ConnectionLimit>1200</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
      </InterZonalLimits>
```

- 
- [etc.]
- 

```
      <InterZonalLimits>
            <Period>95</Period>
```

```
                              <ConnectionLimit>2500</ConnectionLimit>
                              <ConnectionCoefficient>1</ConnectionCoefficient>
                        </InterZonalLimits>
                        <InterZonalLimits>
                              <Period>96</Period>
                              <ConnectionLimit>2500</ConnectionLimit>
                              <ConnectionCoefficient>1</ConnectionCoefficient>
                        </InterZonalLimits>
                  </InterZonalDetail>
```

- 
- [etc.]
- 

```
            </MarketDetail>
      </ZoneInformation>
</PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for ZoneInformation*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>

	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>

	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
	<element name="Recipient">
```

```
                <complexType>
                        <sequence>
                                <element ref="pd:TradingPartner"/>
                        </sequence>
                </complexType>
        </element>
        <element name="TradingPartner">
                <complexType>
                        <sequence>
                                <element name="CompanyName" type="string"/>
                                <element name="CompanyIdentifier" type="string"/>
                        </sequence>
                        <attribute name="PartnerType" type="string"/>
                </complexType>
        </element>

        <element name = "PIPTransaction">
                <complexType>
                        <sequence>
                                <element ref = "pd:ZoneInformation"/>
                        </sequence>
                        <attribute name = "ReferenceNumber" type = "pd:lengthThirtyType" use="required"/>
<attribute name = "InboundMessageCreationDate" type = "pd:creationDateType" use="optional"/>
<attribute name = "InboundMessageCreationTime" type = "pd:creationTimeMillisecsType" use="optional"/>

                </complexType>
        </element>


        <element name = "ZoneInformation">
                <complexType>
                        <sequence>
                                <element name = "Date" type = "pd:dateType"/>
                                <element name = "MarketDetail" minOccurs="1" maxOccurs="unbounded">
                                        <complexType>
                                                <sequence>
                                                        <element name = "Market" type = "pd:marketType"/>
                                                        <element name = "InterZonalDetail" minOccurs="1" maxOccurs="unbounded">
                                                                <complexType>
                                                                        <sequence>
                                                                                <element name = "FromZone" type = "pd:zoneNameType"/>
                                                                                <element name = "ToZone" type = "pd:zoneNameType"/>
                                                                                <element name = "InterZonalLimits" minOccurs="1" maxOccurs="100">
                                                                                        <complexType>
                                                                                                <sequence>
                                                                                                        <element name = "Period" type = "pd:periodIntervalType"/>
                                                                                                        <element name = "ConnectionLimit" type = "pd:localeDecimal"/>
```

```
                                                                    <element name = "ConnectionCoefficient" type = "string"/>
                                                                </sequence>
                                                            </complexType>
                                                        </element>
                                                    </sequence>
                                                </complexType>
                                            </element>
                                        </sequence>
                                    </complexType>
                                </element>
                            </sequence>
                        </complexType>
                    </element>

</schema>
```

## *GeneralizedConstraintsDetail*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="002424369" CreationDate="20040912164324" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>OEXXXXX</CompanyName>
                        <CompanyIdentifier>OEXXXXX</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

  <PIPTransaction ReferenceNumber="9995894172489552" InboundMessageCreationDate="20210501"
InboundMessageCreationTime="100707567">
<GeneralizedConstraintsDetail >
  <Date>20210502</Date>
  <Market>MGP</Market>
  <GeneralizedConstraints>
    <GeneralizedConstraint Name="GC_COUP">
      <InterZoneDetail FromZone="XFRA" ToZone="COUP" />
      <InterZoneDetail FromZone="XAUS" ToZone="COUP" />
      <InterZoneDetail FromZone="BSP" ToZone="COUP" />
            <GeneralizedConstraintsDetail Period="1" LimitUp="3942,4" LimitDown="18422,6" LimitRampUp="999999" LimitRampDow
      n="999999"/>
            <GeneralizedConstraintsDetail Period="2" LimitUp="3852,5" LimitDown="18512,5" LimitRampUp="999999" LimitRampDow
      n="999999"/>
```

```
      <GeneralizedConstraintsDetail Period="3" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="9
99999"/>
      <GeneralizedConstraintsDetail Period="4" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="9
99999"/>
      <GeneralizedConstraintsDetail Period="5" LimitUp="4066,2" LimitDown="18298,8" LimitRampUp="999999" LimitRampDow
n="999999"/>
      <GeneralizedConstraintsDetail Period="6" LimitUp="3839,3" LimitDown="18525,7" LimitRampUp="999999" LimitRampDow
n="999999"/>
      <GeneralizedConstraintsDetail Period="7" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="9
99999"/>
      <GeneralizedConstraintsDetail Period="8" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="9
99999"/>
      <GeneralizedConstraintsDetail Period="9" LimitUp="3923,7" LimitDown="18441,3" LimitRampUp="999999" LimitRampDow
n="999999"/>
      <GeneralizedConstraintsDetail Period="10" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="
999999"/>
```

- 
- [etc.]
- 

```
      <GeneralizedConstraintsDetail Period="94" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="
999999"/>
      <GeneralizedConstraintsDetail Period="95" LimitUp="3923,7" LimitDown="18441,3" LimitRampUp="999999" LimitRampDo
wn="999999"/>
      <GeneralizedConstraintsDetail Period="96" LimitUp="3832" LimitDown="18533" LimitRampUp="999999" LimitRampDown="
999999"/>
    </GeneralizedConstraint>
  </GeneralizedConstraints>
</GeneralizedConstraintsDetail>
</PIPTransaction>
</PIPEDocument>
```

## *PIPEDocument.xsd for GeneralizedConstraintsDetail*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>

	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>

	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
	<element name="Recipient">
```

```
                <complexType>
                        <sequence>
                                <element ref="pd:TradingPartner"/>
                        </sequence>
                </complexType>
        </element>
        <element name="TradingPartner">
                <complexType>
                        <sequence>
                                <element name="CompanyName" type="string"/>
                                <element name="CompanyIdentifier" type="string"/>
                        </sequence>
                        <attribute name="PartnerType" type="string"/>
                </complexType>
        </element>

        <element name = "PIPTransaction">
                <complexType>
                        <sequence>
                                <element ref = "pd:ZoneInformation"/>
                        </sequence>
                        <attribute name = "ReferenceNumber" type = "pd:lengthThirtyType" use="required"/>
<attribute name = "InboundMessageCreationDate" type = "pd:creationDateType" use="optional"/>
<attribute name = "InboundMessageCreationTime" type = "pd:creationTimeMillisecsType" use="optional"/>

                </complexType>
        </element>


        <element name = "GeneralizedConstraintsDetail">
                <complexType>
                        <sequence>
                                <element name = "Date" type = "pd:dateType"/>
                                <element name = "Market" type = "pd:marketType"/>
                                <element name = "GeneralizedConstraints">
                                        <complexType>
                                                <sequence>
                                                        <element name = " GeneralizedConstraint" minOccurs="1" maxOccurs="unbounded">
                                                                <complexType>
                                                                        <sequence>
                                                                                <element name = "InterZoneDetail" minOccurs="1" maxOccurs="unbounded">
                                                                                        <complexType>
                                                                                                <attribute name = "FromZone" type = "pd:zoneNameType"/>
                                                                                                <attribute name = "ToZone" type = "pd:zoneNameType"/>
                                                                                        </complexType>
                                                                                </element>
                                                                                <element name = "GeneralizedConstraintsDetail" minOccurs="1" maxOccurs="unbounded">
```

```
                                                
```

## *EstimatedDemandInformation*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="002424563" CreationDate="20040912164403" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>ITALGEN S.P.A.</CompanyName>
                        <CompanyIdentifier>OEITLCM</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="42560017234788" InboundMessageCreationDate ="20040912" InboundMessageCreationTime
="164250716">
            <EstimatedDemandInformation>
                  <Date>20240913</Date>
                  <ZoneDetail>
                        <Zone>NORD</Zone>
                        <EstimatedDemand Period ="1">100,45</EstimatedDemand>
                        <EstimatedDemand Period ="2">6962,23</EstimatedDemand>
                        <EstimatedDemand Period ="3">6725,78</EstimatedDemand>
                        <EstimatedDemand Period ="4">6607,55</EstimatedDemand>
                        <EstimatedDemand Period ="5">6850,57</EstimatedDemand>
                        <EstimatedDemand Period ="6">7277,5</EstimatedDemand>
                        <EstimatedDemand Period ="7">8472,91</EstimatedDemand>
                        <EstimatedDemand Period ="8">10476,19</EstimatedDemand>
```

```
                        <EstimatedDemand Period ="9">11087,03</EstimatedDemand>
                        <EstimatedDemand Period ="10">11481,12</EstimatedDemand>
                        <EstimatedDemand Period ="11">11336,62</EstimatedDemand>
                        <EstimatedDemand Period ="12">11054,19</EstimatedDemand>
                        <EstimatedDemand Period ="13">10614,12</EstimatedDemand>
                        <EstimatedDemand Period ="14">10725,78</EstimatedDemand>
                        <EstimatedDemand Period ="15">11034,48</EstimatedDemand>
                        <EstimatedDemand Period ="16">11277,5</EstimatedDemand>
```

- 
- [etc.]
- 

```
                        <EstimatedDemand Period ="94">9254,52</EstimatedDemand>
                        <EstimatedDemand Period ="95">8538,59</EstimatedDemand>
                        <EstimatedDemand Period ="96">7206</EstimatedDemand>
                  </ZoneDetail>
                  <ZoneDetail>
                        <Zone>CNOR</Zone>
                        <EstimatedDemand Period ="1">2600</EstimatedDemand>
                        <EstimatedDemand Period ="2">2465,79</EstimatedDemand>
                        <EstimatedDemand Period ="3">2382,05</EstimatedDemand>
                        <EstimatedDemand Period ="4">2340,18</EstimatedDemand>
                        <EstimatedDemand Period ="5">2426,25</EstimatedDemand>
                        <EstimatedDemand Period ="6">2577,45</EstimatedDemand>
                        <EstimatedDemand Period ="7">3000,82</EstimatedDemand>
                        <EstimatedDemand Period ="8">3710,32</EstimatedDemand>
                        <EstimatedDemand Period ="9">3926,66</EstimatedDemand>
                        <EstimatedDemand Period ="10">4066,23</EstimatedDemand>
                        <EstimatedDemand Period ="11">4015,05</EstimatedDemand>
                        <EstimatedDemand Period ="12">3915,02</EstimatedDemand>
                        <EstimatedDemand Period ="13">3759,17</EstimatedDemand>
                        <EstimatedDemand Period ="14">3798,71</EstimatedDemand>
                        <EstimatedDemand Period ="15">3908,05</EstimatedDemand>
                        <EstimatedDemand Period ="16">3994,12</EstimatedDemand>
```

- 
- [etc.]
- 

```
                        <EstimatedDemand Period ="94">3277,64</EstimatedDemand>
                        <EstimatedDemand Period ="95">3024,08</EstimatedDemand>
```

```
                  <EstimatedDemand Period ="96">2600</EstimatedDemand>
            </ZoneDetail>
            <ZoneDetail>
                  <Zone>CSUD</Zone>
                  <EstimatedDemand Period ="1">2990</EstimatedDemand>
                  <EstimatedDemand Period ="2">3191,02</EstimatedDemand>
                  <EstimatedDemand Period ="3">3082,65</EstimatedDemand>
                  <EstimatedDemand Period ="4">3028,46</EstimatedDemand>
                  <EstimatedDemand Period ="5">3139,85</EstimatedDemand>
                  <EstimatedDemand Period ="6">3335,52</EstimatedDemand>
                  <EstimatedDemand Period ="7">3883,42</EstimatedDemand>
                  <EstimatedDemand Period ="8">4801,59</EstimatedDemand>
                  <EstimatedDemand Period ="9">5081,55</EstimatedDemand>
                  <EstimatedDemand Period ="10">5262,18</EstimatedDemand>
                  <EstimatedDemand Period ="11">5195,95</EstimatedDemand>
                  <EstimatedDemand Period ="12">5066,5</EstimatedDemand>
                  <EstimatedDemand Period ="13">4864,81</EstimatedDemand>
                  <EstimatedDemand Period ="14">4915,98</EstimatedDemand>
                  <EstimatedDemand Period ="15">5057,47</EstimatedDemand>
                  <EstimatedDemand Period ="16">5168,86</EstimatedDemand>
```

- [etc.]
-

```
                  <EstimatedDemand Period ="94">4241,65</EstimatedDemand>
                  <EstimatedDemand Period ="95">3913,52</EstimatedDemand>
                  <EstimatedDemand Period ="96">2990</EstimatedDemand>
            </ZoneDetail>
            <ZoneDetail>
                  <Zone>SUD</Zone>
                  <EstimatedDemand Period ="1">3190</EstimatedDemand>
                  <EstimatedDemand Period ="2">2900,93</EstimatedDemand>
                  <EstimatedDemand Period ="3">2802,41</EstimatedDemand>
                  <EstimatedDemand Period ="4">2753,15</EstimatedDemand>
                  <EstimatedDemand Period ="5">2854,41</EstimatedDemand>
                  <EstimatedDemand Period ="6">3032,29</EstimatedDemand>
                  <EstimatedDemand Period ="7">3530,38</EstimatedDemand>
                  <EstimatedDemand Period ="8">4365,08</EstimatedDemand>
                  <EstimatedDemand Period ="9">4619,59</EstimatedDemand>
                  <EstimatedDemand Period ="10">4783,8</EstimatedDemand>
                  <EstimatedDemand Period ="11">4723,59</EstimatedDemand>
                  <EstimatedDemand Period ="12">4605,91</EstimatedDemand>
```

```
                        <EstimatedDemand Period ="13">4422,55</EstimatedDemand>
                        <EstimatedDemand Period ="14">4469,07</EstimatedDemand>
                        <EstimatedDemand Period ="15">4597,7</EstimatedDemand>
                        <EstimatedDemand Period ="16">4698,96</EstimatedDemand>
```

- 
- [etc.]
- 

```
                        <EstimatedDemand Period ="94">3856,05</EstimatedDemand>
                        <EstimatedDemand Period ="95">3557,74</EstimatedDemand>
                        <EstimatedDemand Period ="96">3185,55</EstimatedDemand>
                  </ZoneDetail>
                  <ZoneDetail>
                        <Zone>SICI</Zone>
                        <EstimatedDemand Period ="1">910</EstimatedDemand>
                        <EstimatedDemand Period ="2">870,28</EstimatedDemand>
                        <EstimatedDemand Period ="3">840,72</EstimatedDemand>
                        <EstimatedDemand Period ="4">825,94</EstimatedDemand>
                        <EstimatedDemand Period ="5">856,32</EstimatedDemand>
                        <EstimatedDemand Period ="6">909,69</EstimatedDemand>
                        <EstimatedDemand Period ="7">1059,11</EstimatedDemand>
                        <EstimatedDemand Period ="8">1309,52</EstimatedDemand>
                        <EstimatedDemand Period ="9">1385,88</EstimatedDemand>
                        <EstimatedDemand Period ="10">1435,14</EstimatedDemand>
                        <EstimatedDemand Period ="11">1417,08</EstimatedDemand>
                        <EstimatedDemand Period ="12">1381,77</EstimatedDemand>
                        <EstimatedDemand Period ="13">1326,77</EstimatedDemand>
                        <EstimatedDemand Period ="14">1340,72</EstimatedDemand>
                        <EstimatedDemand Period ="15">1379,31</EstimatedDemand>
                        <EstimatedDemand Period ="16">1409,69</EstimatedDemand>
```

- 
- [etc.]
- 

```
                        <EstimatedDemand Period ="94">1156,81</EstimatedDemand>
                        <EstimatedDemand Period ="95">1067,32</EstimatedDemand>
                        <EstimatedDemand Period ="96">910</EstimatedDemand>
                  </ZoneDetail>
                  <ZoneDetail>
                        <Zone>SARD</Zone>
                        <EstimatedDemand Period ="1">480</EstimatedDemand>
```

```
                        <EstimatedDemand Period ="2">435,14</EstimatedDemand>
                        <EstimatedDemand Period ="3">420,36</EstimatedDemand>
                        <EstimatedDemand Period ="4">412,97</EstimatedDemand>
                        <EstimatedDemand Period ="5">428,16</EstimatedDemand>
                        <EstimatedDemand Period ="6">454,84</EstimatedDemand>
                        <EstimatedDemand Period ="7">529,56</EstimatedDemand>
                        <EstimatedDemand Period ="8">654,76</EstimatedDemand>
                        <EstimatedDemand Period ="9">692,94</EstimatedDemand>
                        <EstimatedDemand Period ="10">717,57</EstimatedDemand>
                        <EstimatedDemand Period ="11">708,54</EstimatedDemand>
                        <EstimatedDemand Period ="12">690,89</EstimatedDemand>
                        <EstimatedDemand Period ="13">663,38</EstimatedDemand>
                        <EstimatedDemand Period ="14">670,36</EstimatedDemand>
                        <EstimatedDemand Period ="15">689,66</EstimatedDemand>
                        <EstimatedDemand Period ="16">704,84</EstimatedDemand>
```

- 
- [etc.]
- 

```
                        <EstimatedDemand Period ="94">578,41</EstimatedDemand>
                        <EstimatedDemand Period ="95">533,66</EstimatedDemand>
                        <EstimatedDemand Period ="96">477,83</EstimatedDemand>
                  </ZoneDetail>
                  <ZoneDetail>
                        <Zone>CALA</Zone>
                        <EstimatedDemand Period ="1">480</EstimatedDemand>
                        <EstimatedDemand Period ="2">435,14</EstimatedDemand>
                        <EstimatedDemand Period ="3">420,36</EstimatedDemand>
                        <EstimatedDemand Period ="4">412,97</EstimatedDemand>
                        <EstimatedDemand Period ="5">428,16</EstimatedDemand>
                        <EstimatedDemand Period ="6">454,84</EstimatedDemand>
                        <EstimatedDemand Period ="7">529,56</EstimatedDemand>
                        <EstimatedDemand Period ="8">654,76</EstimatedDemand>
                        <EstimatedDemand Period ="9">692,94</EstimatedDemand>
                        <EstimatedDemand Period ="10">717,57</EstimatedDemand>
                        <EstimatedDemand Period ="11">708,54</EstimatedDemand>
                        <EstimatedDemand Period ="12">690,89</EstimatedDemand>
                        <EstimatedDemand Period ="13">663,38</EstimatedDemand>
                        <EstimatedDemand Period ="14">670,36</EstimatedDemand>
                        <EstimatedDemand Period ="15">689,66</EstimatedDemand>
                        <EstimatedDemand Period ="16">704,84</EstimatedDemand>
```

## APPENDIX A - Transaction Examples

- 
- [etc.]
- 

```
                    <EstimatedDemand Period ="94">578,41</EstimatedDemand>
                    <EstimatedDemand Period ="95">533,66</EstimatedDemand>
                    <EstimatedDemand Period ="96">477,83</EstimatedDemand>
               </ZoneDetail>
          </EstimatedDemandInformation>
    </PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for EstimatedDemandInformation*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>

	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>

	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
```

## APPENDIX A - Transaction Examples

```
<element name="Recipient">
        <complexType>
                <sequence>
                        <element ref="pd:TradingPartner"/>
                </sequence>
        </complexType>
</element>
<element name="TradingPartner">
        <complexType>
                <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                </sequence>
                <attribute name="PartnerType" type="string"/>
        </complexType>
</element>

<element name = "PIPTransaction">
        <complexType>
                <sequence>
                        <element ref = "pd:EstimatedDemandInformation"/>
                </sequence>
                <attribute name = "ReferenceNumber" type = "pd:lengthThirtyType" use="required"/>
                 <attribute name = "InboundMessageCreationDate" type = "pd:creationDateType" use="optional"/>
              <attribute name = "InboundMessageCreationTime" type = "pd:creationTimeMillisecsType" use="optional"/>
        </complexType>
</element>


<element name = "EstimatedDemandInformation">
        <complexType>
                <sequence>
                        <element name = "Date" type = "pd:dateType"/>
                        <element name = "ZoneDetail"  minOccurs="1" maxOccurs="unbounded">
                                <complexType>
                                        <sequence>
                                                <element name = "Zone" type = "pd:zoneNameType"/>
                                                <element name = "EstimatedDemand" minOccurs="1" maxOccurs="100">
                                                        <complexType>
                                                                <simpleContent>
                                                                        <extension base = "pd:localeDecimal">
                                                                                <attribute name = "Period" type = "pd:periodIntervalType"  use="required"/>
                                                                        </extension>
                                                                </simpleContent>
                                                        </complexType>
                                                </element>
                                        </sequence>
```

```
                                        </complexType>
                                    </element>
                                </sequence>
                            </complexType>
                        </element>

</schema>
```

## *EstimatedPriceInformation*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="002424956" CreationDate="20040912164519" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>ITALGEN S.P.A.</CompanyName>
                        <CompanyIdentifier>OEITLCM</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="42560017234918" InboundMessageCreationDate ="20040912" InboundMessageCreationTime
="164307168">
            <EstimatedPriceInformation>
                  <Market>MGP</Market>
                  <Date>20040913</Date>
                  <ZoneDetail>
                        <Zone>NORD</Zone>
                        <EstimatedPrice Period ="1">23,24</EstimatedPrice>
                        <EstimatedPrice Period ="2">26,34</EstimatedPrice>
                        <EstimatedPrice Period ="3">29,44</EstimatedPrice>
                        <EstimatedPrice Period ="4">30,99</EstimatedPrice>
                        <EstimatedPrice Period ="5">34,87</EstimatedPrice>
                        <EstimatedPrice Period ="6">38,74</EstimatedPrice>
                        <EstimatedPrice Period ="7">42,61</EstimatedPrice>
```

```
                  <EstimatedPrice Period ="8">46,49</EstimatedPrice>
                  <EstimatedPrice Period ="9">54,24</EstimatedPrice>
                  <EstimatedPrice Period ="10">61,98</EstimatedPrice>
                  <EstimatedPrice Period ="11">56,56</EstimatedPrice>
                  <EstimatedPrice Period ="12">50,36</EstimatedPrice>
                  <EstimatedPrice Period ="13">46,49</EstimatedPrice>
```

- 
- [etc.]
- 

```
                  <EstimatedPrice Period ="93">46,49</EstimatedPrice>
                  <EstimatedPrice Period ="94">38,74</EstimatedPrice>
                  <EstimatedPrice Period ="95">30,99</EstimatedPrice>
                  <EstimatedPrice Period ="96">23,24</EstimatedPrice>
            </ZoneDetail>
            <ZoneDetail>
                  <Zone>CNOR</Zone>
                  <EstimatedPrice Period ="1">23,71</EstimatedPrice>
                  <EstimatedPrice Period ="2">26,87</EstimatedPrice>
                  <EstimatedPrice Period ="3">30,03</EstimatedPrice>
                  <EstimatedPrice Period ="4">31,61</EstimatedPrice>
                  <EstimatedPrice Period ="5">35,56</EstimatedPrice>
                  <EstimatedPrice Period ="6">39,51</EstimatedPrice>
                  <EstimatedPrice Period ="7">43,47</EstimatedPrice>
                  <EstimatedPrice Period ="8">47,42</EstimatedPrice>
                  <EstimatedPrice Period ="9">55,32</EstimatedPrice>
                  <EstimatedPrice Period ="10">63,22</EstimatedPrice>
                  <EstimatedPrice Period ="11">57,69</EstimatedPrice>
                  <EstimatedPrice Period ="12">51,37</EstimatedPrice>
                  <EstimatedPrice Period ="13">47,42</EstimatedPrice>
```

- 
- [etc.]
- 

```
                  <EstimatedPrice Period ="93">47,42</EstimatedPrice>
                  <EstimatedPrice Period ="94">39,51</EstimatedPrice>
                  <EstimatedPrice Period ="95">31,61</EstimatedPrice>
                  <EstimatedPrice Period ="96">23,71</EstimatedPrice>
            </ZoneDetail>
            <ZoneDetail>
                  <Zone>CSUD</Zone>
```

```
                        <EstimatedPrice Period ="1">20,92</EstimatedPrice>
                        <EstimatedPrice Period ="2">23,71</EstimatedPrice>
                        <EstimatedPrice Period ="3">26,5</EstimatedPrice>
                        <EstimatedPrice Period ="4">27,89</EstimatedPrice>
                        <EstimatedPrice Period ="5">31,38</EstimatedPrice>
                        <EstimatedPrice Period ="6">34,87</EstimatedPrice>
                        <EstimatedPrice Period ="7">38,35</EstimatedPrice>
                        <EstimatedPrice Period ="8">41,84</EstimatedPrice>
                        <EstimatedPrice Period ="9">48,81</EstimatedPrice>
                        <EstimatedPrice Period ="10">55,79</EstimatedPrice>
                        <EstimatedPrice Period ="11">50,9</EstimatedPrice>
                        <EstimatedPrice Period ="12">45,33</EstimatedPrice>
                        <EstimatedPrice Period ="13">41,84</EstimatedPrice>
```

- 
- [etc.]
- 

```
                        <EstimatedPrice Period ="93">41,84</EstimatedPrice>
                        <EstimatedPrice Period ="94">34,87</EstimatedPrice>
                        <EstimatedPrice Period ="95">27,89</EstimatedPrice>
                        <EstimatedPrice Period ="96">20,92</EstimatedPrice>
                  </ZoneDetail>
                  <ZoneDetail>
                        <Zone>SUD</Zone>
                        <EstimatedPrice Period ="1">19,99</EstimatedPrice>
                        <EstimatedPrice Period ="2">22,65</EstimatedPrice>
                        <EstimatedPrice Period ="3">25,32</EstimatedPrice>
                        <EstimatedPrice Period ="4">26,65</EstimatedPrice>
                        <EstimatedPrice Period ="5">29,98</EstimatedPrice>
                        <EstimatedPrice Period ="6">33,32</EstimatedPrice>
                        <EstimatedPrice Period ="7">36,65</EstimatedPrice>
                        <EstimatedPrice Period ="8">39,98</EstimatedPrice>
                        <EstimatedPrice Period ="9">46,64</EstimatedPrice>
                        <EstimatedPrice Period ="10">53,31</EstimatedPrice>
                        <EstimatedPrice Period ="11">48,64</EstimatedPrice>
                        <EstimatedPrice Period ="12">43,31</EstimatedPrice>
                        <EstimatedPrice Period ="13">39,98</EstimatedPrice>
```

- 
- [etc.]
- 

```
                  <EstimatedPrice Period ="93">39,98</EstimatedPrice>
                  <EstimatedPrice Period ="94">33,32</EstimatedPrice>
                  <EstimatedPrice Period ="95">26,65</EstimatedPrice>
                  <EstimatedPrice Period ="96">19,99</EstimatedPrice>
            </ZoneDetail>
            <ZoneDetail>
                  <Zone>SICI</Zone>
                  <EstimatedPrice Period ="1">23,31</EstimatedPrice>
                  <EstimatedPrice Period ="2">26,42</EstimatedPrice>
                  <EstimatedPrice Period ="3">29,53</EstimatedPrice>
                  <EstimatedPrice Period ="4">31,08</EstimatedPrice>
                  <EstimatedPrice Period ="5">34,97</EstimatedPrice>
                  <EstimatedPrice Period ="6">38,86</EstimatedPrice>
                  <EstimatedPrice Period ="7">42,74</EstimatedPrice>
                  <EstimatedPrice Period ="8">46,63</EstimatedPrice>
                  <EstimatedPrice Period ="9">54,4</EstimatedPrice>
                  <EstimatedPrice Period ="10">62,17</EstimatedPrice>
                  <EstimatedPrice Period ="11">56,73</EstimatedPrice>
                  <EstimatedPrice Period ="12">50,51</EstimatedPrice>
                  <EstimatedPrice Period ="13">46,63</EstimatedPrice>
```

- 
- [etc.]
- 

```
                  <EstimatedPrice Period ="93">46,63</EstimatedPrice>
                  <EstimatedPrice Period ="94">38,86</EstimatedPrice>
                  <EstimatedPrice Period ="95">31,08</EstimatedPrice>
                  <EstimatedPrice Period ="96">23,31</EstimatedPrice>
            </ZoneDetail>
```

- 
- [etc.]
- 

```
      </EstimatedPriceInformation>
</PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for EstimatedPriceInformation*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>

	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>

	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
```

## APPENDIX A - Transaction Examples

```
<element name="Recipient">
        <complexType>
                <sequence>
                        <element ref="pd:TradingPartner"/>
                </sequence>
        </complexType>
</element>
<element name="TradingPartner">
        <complexType>
                <sequence>
                        <element name="CompanyName" type="string"/>
                        <element name="CompanyIdentifier" type="string"/>
                </sequence>
                <attribute name="PartnerType" type="string"/>
        </complexType>
</element>

<element name = "PIPTransaction">
        <complexType>
                <sequence>
                        <element ref = "pd:EstimatedPriceInformation"/>
                </sequence>
                <attribute name = "ReferenceNumber" type = "pd:lengthThirtyType" use="required"/>
                 <attribute name = "InboundMessageCreationDate" type = "pd:creationDateType" use="optional"/>
              <attribute name = "InboundMessageCreationTime" type = "pd:creationTimeMillisecsType" use="optional"/>
        </complexType>
</element>


<element name = "EstimatedPriceInformation">
        <complexType>
                <sequence>
<element name = "Market" type = "pd:conventionalPriceMarketType"/>
                        <element name = "Date" type = "pd:dateType"/>
                        <element name = "ZoneDetail"  minOccurs="1" maxOccurs="unbounded">
                                <complexType>
                                        <sequence>
                                                <element name = "Zone" type = "pd:zoneNameType"/>
                                                <element name = "EstimatedPrice" minOccurs="1" maxOccurs="25">
                                                        <complexType>
                                                                <simpleContent>
                                                                        <extension base = "pd:localeDecimal">
                                                                                <attribute name = "Period" type = "pd:periodIntervalType" use="required"/>
                                                                        </extension>
                                                                </simpleContent>
                                                        </complexType>
                                                </element>
```

```
                                                    </sequence>
                                                </complexType>
                                            </element>
                                        </sequence>
                                    </complexType>
                                </element>
</schema>
```

## *MarketResult*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="003013275" CreationDate="20041223175634" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>GRTN</CompanyName>
                        <CompanyIdentifier>IDGRTN</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="43580025557599" InboundMessageCreationDate ="20041223" InboundMessageCreationTime
="153720440">
            <MarketResult>
                  <Date>20041224</Date>
                  <MarketDetail>
                        <Market>MGP</Market>
                        <ZoneDetail>
                              <Zone>NAT</Zone>
                              <Interval Period="1" TimeResolution="PT15">
                                    <BuyPrice>500,000000</BuyPrice>
                                    <SellPrice>500,000000</SellPrice>
                                    <Generation>6.966,4</Generation>
                                    <Consumption>6.966,4</Consumption>
                              </Interval>
```

```
<Interval Period="2" TimeResolution="PT15">
      <BuyPrice>500,000000</BuyPrice>
      <SellPrice>500,000000</SellPrice>
      <Generation>6.952,1</Generation>
      <Consumption>6.952,1</Consumption>
</Interval>
<Interval Period="3" TimeResolution="PT15">
      <BuyPrice>500,000000</BuyPrice>
      <SellPrice>500,000000</SellPrice>
      <Generation>6.953,1</Generation>
      <Consumption>6.953,1</Consumption>
</Interval>
<Interval Period="4" TimeResolution="PT15">
      <BuyPrice>500,000000</BuyPrice>
      <SellPrice>500,000000</SellPrice>
      <Generation>6.945,1</Generation>
      <Consumption>6.945,1</Consumption>
</Interval>
```

- 
- [etc.]
- 

```
<Interval Period="96" TimeResolution="PT15">
      <BuyPrice>500,000000</BuyPrice>
      <SellPrice>500,000000</SellPrice>
      <Generation>6.945,1</Generation>
      <Consumption>6.945,1</Consumption>
</Interval>
<Interval Period="1" TimeResolution="PT30">
      <BuyPrice>500,000000</BuyPrice>
      <SellPrice>500,000000</SellPrice>
      <Generation>6.945,1</Generation>
      <Consumption>6.945,1</Consumption>
</Interval>
<Interval Period="2" TimeResolution="PT30">
      <BuyPrice>500,000000</BuyPrice>
      <SellPrice>500,000000</SellPrice>
      <Generation>6.945,1</Generation>
      <Consumption>6.945,1</Consumption>
</Interval>
```

- 
- [etc.]
- 

```
                        <Interval Period="48" TimeResolution="PT30">
                              <BuyPrice>500,000000</BuyPrice>
                              <SellPrice>500,000000</SellPrice>
                              <Generation>6.945,1</Generation>
                              <Consumption>6.945,1</Consumption>
                        </Interval>
                        <Interval Period="1" TimeResolution="PT60">
                              <BuyPrice>500,000000</BuyPrice>
                              <SellPrice>500,000000</SellPrice>
                              <Generation>6.945,1</Generation>
                              <Consumption>6.945,1</Consumption>
                        </Interval>
                        <Interval Period="2" TimeResolution="PT60">
                              <BuyPrice>500,000000</BuyPrice>
                              <SellPrice>500,000000</SellPrice>
                              <Generation>6.945,1</Generation>
                              <Consumption>6.945,1</Consumption>
                        </Interval>
```

- 
- [etc.]
- 

```
                        <Interval Period="24" TimeResolution="PT60">
                              <BuyPrice>500,000000</BuyPrice>
                              <SellPrice>500,000000</SellPrice>
                              <Generation>6.945,1</Generation>
                              <Consumption>6.945,1</Consumption>
                        </Interval>
                  </ZoneDetail>
            </MarketDetail>
      </MarketResult>
</PIPTransaction></PIPEDocument>
```

**APPENDIX A - Transaction Examples**

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="003013275" CreationDate="20041223175634" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>GRTN</CompanyName>
                        <CompanyIdentifier>IDGRTN</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="43580025557599" InboundMessageCreationDate ="20041223" InboundMessageCreationTime
="153720440">
            <MarketResult>
                  <Date>20041224</Date>
                  <MarketDetail>
                        <Market>MI1</Market>
                        <ZoneDetail>
                              <Zone>NAT</Zone>
                              <Interval Period="1" TimeResolution="PT15">
                                    <BuyPrice>500,000000</BuyPrice>
                                    <SellPrice>500,000000</SellPrice>
                                    <Generation>6.966,4</Generation>
                                    <Consumption>6.966,4</Consumption>
                              </Interval>
                              <Interval Period="2" TimeResolution="PT15">
                                    <BuyPrice>500,000000</BuyPrice>
                                    <SellPrice>500,000000</SellPrice>
                                    <Generation>6.952,1</Generation>
```

```
                              <Consumption>6.952,1</Consumption>
                        </Interval>
                        <Interval Period="3" TimeResolution="PT15">
                              <BuyPrice>500,000000</BuyPrice>
                              <SellPrice>500,000000</SellPrice>
                              <Generation>6.953,1</Generation>
                              <Consumption>6.953,1</Consumption>
                        </Interval>
```

- 
- [etc.]
- 

```
                  </ZoneDetail>
            </MarketDetail>
      </MarketResult>
</PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for MarketResult*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
		</complexType>
	</element>
	<element name="Sender">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartner"/>
			</sequence>
		</complexType>
	</element>
	<element name="Recipient">
		<complexType>
```

```
                <sequence>
                    <element ref="pd:TradingPartner"/>
                </sequence>
            </complexType>
        </element>
        <element name="TradingPartner">
            <complexType>
                <sequence>
                    <element name="CompanyName" type="string"/>
                    <element name="CompanyIdentifier" type="string"/>
                </sequence>
                <attribute name="PartnerType" type="string"/>
            </complexType>
        </element>
        <element name="PIPTransaction">
            <complexType>
                <sequence>
                    <element ref="pd:MarketResult"/>
                </sequence>
                <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
                <attribute name="InboundMessageCreationDate" type="pd:creationDateType" use="required"/>
                <attribute name="InboundMessageCreationTime" type="pd:creationTimeMillisecsType" use="required"/>
            </complexType>
        </element>
        <element name="MarketResult">
            <complexType>
                <sequence>
                    <element name="Date" type="pd:dateType"/>
                    <element name="MarketDetail">
                        <complexType>
                            <sequence>
                                <element name="Market" type="pd:marketType"/>
                                <element name="ZoneDetail" maxOccurs="unbounded">
                                    <complexType>
                                        <sequence>
                                            <element name="Zone" type="string"/>
                                            <element name="Interval" maxOccurs="unbounded">
                                                <complexType>
                                                    <sequence>
                                                        <element name="BuyPrice" type="string"/>
                                                        <element name="SellPrice" type="string"/>
                                                        <element name="Generation" type="string"/>
                                                        <element name="Consumption" type="string"/>
                                                    </sequence>
                                                    <attribute name = "Period" type = "pd:periodIntervalType"/>
                                                    <attribute name = "TimeResolution" type = "pd:timeResolutionType"/>
                                                </complexType>
```

```
                                                                                    </element>
                                                                                </sequence>
                                                                            </complexType>
                                                                        </element>
                                                                    </sequence>
                                                                </complexType>
                                                            </element>
                                                        </sequence>
                                                    </complexType>
                                                </element>
                                            </sequence>
                                        </complexType>
                                    </element>
                                </sequence>
                            </complexType>
                        </element>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
</schema>
```

## *MarketResultMB*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="107288709" CreationDate="20100309173645" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME SPA</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>Primo operatore</CompanyName>
                        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="100680559379369" InboundMessageCreationDate ="20100309" InboundMessageCreationTime
="170535632">
            <MarketResultMB>
                  <Date>20100228</Date>
                  <Market type ="PRELIMINARY">MB</Market>
                  <Period>24</Period>
                  <MarketDetail>
                        <ZoneDetail>
                              <Zone>CNOR</Zone>
                              <RSResult>
                                    <MaxSellPrice>72,500000</MaxSellPrice>
                                    <MinBuyPrice>0,000000</MinBuyPrice>
                                    <BuyPrice>2,966272</BuyPrice>
                                    <SellPrice>72,500000</SellPrice>
                                    <Generation_no165>3,694</Generation_no165>
```

```
                        <Consumption_no165>68,088</Consumption_no165>
                        <Generation_165>11,666</Generation_165>
                        <Consumption_165>20,772</Consumption_165>
                  </RSResult>
                  <ASResult>
                        <MaxSellPrice>0</MaxSellPrice>
                        <MinBuyPrice>4,960000</MinBuyPrice>
                        <BuyPrice>4,978023</BuyPrice>
                        <SellPrice>0</SellPrice>
                        <Generation_no165>0,000</Generation_no165>
                        <Consumption_no165>13,290</Consumption_no165>
                        <Generation_165>0,634</Generation_165>
                        <Consumption_165>0,000</Consumption_165>
                  </ASResult>
            </ZoneDetail>
```

- 
- [etc.]
- 

```
            <ZoneDetail>
                  <Zone>SUD</Zone>
                  <RSResult>
                        <MaxSellPrice>0</MaxSellPrice>
                        <MinBuyPrice>0</MinBuyPrice>
                        <BuyPrice>0</BuyPrice>
                        <SellPrice>0</SellPrice>
                        <Generation_no165>0,000</Generation_no165>
                        <Consumption_no165>0,000</Consumption_no165>
                        <Generation_165>0,000</Generation_165>
                        <Consumption_165>0,000</Consumption_165>
                  </RSResult>
                  <ASResult>
                        <MaxSellPrice>0</MaxSellPrice>
                        <MinBuyPrice>0</MinBuyPrice>
                        <BuyPrice>0</BuyPrice>
                        <SellPrice>0</SellPrice>
                        <Generation_no165>0,000</Generation_no165>
                        <Consumption_no165>0,000</Consumption_no165>
                        <Generation_165>0,000</Generation_165>
                        <Consumption_165>0,000</Consumption_165>
```

```
                              </ASResult>
                         </ZoneDetail>
                    </MarketDetail>
               </MarketResultMB>
     </PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for MarketResultMB*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-PIPE" elementFormDefault="qualified">
	<include schemaLocation="SimpleTypesv1_0.xsd"/>
	<simpleType name="creationDateTimeType">
		<restriction base="integer">
			<minInclusive value="19000000000000"/>
			<maxInclusive value="21000000000000"/>
		</restriction>
	</simpleType>
	<simpleType name="resultType">
		<restriction base="string">
			<enumeration value="PRELIMINARY"/>
			<enumeration value="DEFINITIVE"/>
		</restriction>
	</simpleType>
	<simpleType name="localeDecimal0">
		<restriction base="string">
			<minLength value="0"/>
		</restriction>
	</simpleType>
	<!-- Body -->
	<element name="PIPEDocument">
		<complexType>
			<sequence>
				<element ref="pd:TradingPartnerDirectory"/>
				<element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
			</sequence>
			<attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
			<attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
			<attribute name="Version" type="string" use="required"/>
		</complexType>
	</element>
	<element name="TradingPartnerDirectory">
		<complexType>
			<sequence>
				<element ref="pd:Sender"/>
				<element ref="pd:Recipient"/>
			</sequence>
```

```
            </complexType>
        </element>
        <element name="Sender">
            <complexType>
                <sequence>
                    <element ref="pd:TradingPartner"/>
                </sequence>
            </complexType>
        </element>
        <element name="Recipient">
            <complexType>
                <sequence>
                    <element ref="pd:TradingPartner"/>
                </sequence>
            </complexType>
        </element>
        <element name="TradingPartner">
            <complexType>
                <sequence>
                    <element name="CompanyName" type="string"/>
                    <element name="CompanyIdentifier" type="string"/>
                </sequence>
                <attribute name="PartnerType" type="string"/>
            </complexType>
        </element>
        <element name="PIPTransaction">
            <complexType>
                <sequence>
                    <element ref="pd:MarketResultMB"/>
                </sequence>
                <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
                <attribute name="InboundMessageCreationDate" type="pd:creationDateType" use="required"/>
                <attribute name="InboundMessageCreationTime" type="pd:creationTimeMillisecsType" use="required"/>
            </complexType>
        </element>
        <element name="MarketResultMB">
            <complexType>
                <sequence>
                    <element name="Date" type="pd:dateType"/>
                    <element name="Market" type="pd:MarketType1"/>
                    <element name="Period" type="pd:periodIntervalType"/>
                    <element ref="pd:MarketDetail"/>
                </sequence>
            </complexType>
        </element>
        <complexType name="MarketType1">
            <simpleContent>
```

```
                    <extension base="pd:marketType">
                        <attribute name="type" type="pd:resultType" use="required"/>
                    </extension>
                </simpleContent>
            </complexType>
            <element name="MarketDetail">
                <complexType>
                    <sequence>
                        <element ref="pd:ZoneDetail" maxOccurs="unbounded"/>
                    </sequence>
                </complexType>
            </element>
            <element name="ZoneDetail">
                <complexType>
                    <sequence>
                        <element name="Zone" type="pd:zoneNameType"/>
                        <element ref="pd:RSResult"/>
                        <element ref="pd:ASResult"/>
                    </sequence>
                </complexType>
            </element>
            <element name="RSResult">
                <complexType>
                    <sequence>
                        <element name="MaxSellPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="MinBuyPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="BuyPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="SellPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="Generation_no165" type="pd:localeDecimal"/>
                        <element name="Consumption_no165" type="pd:localeDecimal"/>
                        <element name="Generation_165" type="pd:localeDecimal"/>
                        <element name="Consumption_165" type="pd:localeDecimal"/>
                    </sequence>
                </complexType>
            </element>
            <element name="ASResult">
                <complexType>
                    <sequence>
                        <element name="MaxSellPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="MinBuyPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="BuyPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="SellPrice" type="pd:localeDecimal0" minOccurs="0"/>
                        <element name="Generation_no165" type="pd:localeDecimal"/>
                        <element name="Consumption_no165" type="pd:localeDecimal"/>
                        <element name="Generation_165" type="pd:localeDecimal"/>
                        <element name="Consumption_165" type="pd:localeDecimal"/>
                    </sequence>
```

```
                </complexType>
        </element>
</schema>
```

## *PIPEFunctionalAcknowledgement (rif. TransactionAcknowledgement-xsd)*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEFunctionalAcknowledgement xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEFunctionalAcknowledgementv1_0.xsd"
   ReferenceNumber="21360000298986" OriginalReferenceNumber="MGPoPRIMOP20020516165855" Status="Accept"
CreationDate="20020516170659" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>PRIMO OPERATORE</CompanyName>
                        <CompanyIdentifier>PRIMOP</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <TransactionAcknowledgement Status = "Accept" PIPTransactionType = "BidSubmittal" OriginalReferenceNumber =
"21360001040687"/>

      <TransactionAcknowledgement Status = "Accept" PIPTransactionType = "BidSubmittal" OriginalReferenceNumber =
"21360001040688"/>

      <TransactionAcknowledgement Status = "Accept" PIPTransactionType = "BidSubmittal" OriginalReferenceNumber =
"21360001040689"/>

      <TransactionAcknowledgement Status = "Accept" PIPTransactionType = "BidSubmittal" OriginalReferenceNumber =
"21360001040690"/>
```

- 
- [etc.]
- 

```
      <TransactionAcknowledgement Status = "Accept" PIPTransactionType = "BidSubmittal" OriginalReferenceNumber =
"21360001042582"/>

      <TransactionAcknowledgement Status = "Reject" PIPTransactionType = "BidSubmittal" OriginalReferenceNumber =
"21360001039417">
            <RejectInformation>
                  <Reason></Reason>
                  <ReasonText>The market session is not open, therefore, the (BidSubmittal) with reference number
(21360001039417) cannot be posted.</ReasonText>
            </RejectInformation>
      </TransactionAcknowledgement>

</PIPEFunctionalAcknowledgement>
```

## *PIPEFunctionalAcknowledgementv1_0.xsd for TransactionAcknowledgement*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- PIPE Functional Acknowledgement Schema  -->
<!-- Apache Schema -->
<!-- $Revision: 2 $ -->
<!-- GME JSP -->
<!--Copyright (C) Excelergy Corporation, 1998-2003. All rights reserved.  Excelergy is a registered trademark of Excelergy Corporation.-->
<schema targetNamespace="urn:XML-PIPE" xmlns:pd="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <simpleType name="statusTransactionType1">
        <restriction base="string">
            <enumeration value="Accept"/>
            <enumeration value="Reject"/>
            <enumeration value="Partial"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEFunctionalAcknowledgement">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:RejectInformation" minOccurs="0" maxOccurs="unbounded"/>
                <element ref="pd:TransactionAcknowledgement" minOccurs="0" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="Version" type="string" use="required"/>
            <attribute name="ReferenceNumber" type="pd:lengthFortyType" use="required"/>
            <attribute name="OriginalReferenceNumber" type="pd:lengthFortyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Status" type="pd:statusTransactionType1" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
```

```
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="pd:lengthSixtyType"/>
                <element name="CompanyIdentifier" type="pd:lengthEightyType"/>
                <element name="ApplicationName" type="pd:lengthSixtyType" minOccurs="0"/>
            </sequence>
            <attribute name="PartnerType" type="pd:partnerTypeType" use="required"/>
        </complexType>
    </element>
    <element name="RejectInformation">
        <complexType>
            <sequence>
                <element name="Reason" type="string"/>
                <element name="ReasonText" type="pd:length250Type" minOccurs="0"/>
            </sequence>
        </complexType>
    </element>
    <element name="TransactionAcknowledgement">
        <complexType>
            <sequence>
                <element ref="pd:RejectInformation" minOccurs="0" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="OriginalReferenceNumber" type="pd:lengthThirtyFiveType" use="required"/>
            <attribute name="Status" type="pd:statusTransactionType" use="required"/>
            <attribute name="PIPTransactionType" type="pd:pipTransctionType" use="optional"/>
            <attribute name="MarketParticipantNumber" type="pd:lengthThirtyFiveType" use="optional"/>
        </complexType>
    </element>
</schema>
```

## *Program*

```
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageType="Request" MessageDate="2024-10-01" MessageTime="06:52:44.8179793Z" xmlns="urn:XML-LTS">
  <Header>
    <Sender>
      <CompanyName>OEXXXX</CompanyName>
      <UserMsgCode>user</UserMsgCode>
      <OperatorMsgCode>OEXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Program>
      <OperatorCode>OEXXXX</OperatorCode>
      <FlowDate>2024-10-01</FlowDate>
      <UnitId>UP_UNIT_1</UnitId>
      <Interval>49</Interval>
      <Direction>I</Direction>
      <OperationType>SUB</OperationType>
      <Qty>1</Qty>
    </Program>
  </Transaction>
</Message>
```

## *PIPEDocument.xsd for Program*

```
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-LTS" xmlns:pd="urn:XML-LTS"
        elementFormDefault="qualified">
        <include schemaLocation="SimpleTypesv1_0.xsd"/>

    <element name="Message">
        <complexType>
            <sequence>
                <element ref="pd:Header"/>
                <element ref="pd:Transaction" maxOccurs="6000"/>
            </sequence>
            <attribute name="MessageCode" type="int" use="optional"/>
            <attribute name="MessageType" type="pd:lengthThirtyType" use="required"/>
            <attribute name="MessageDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="MessageTime" type="string" use="required"/>
        </complexType>
    </element>
    <element name="Header">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="UserMsgCode" type="string"/>
                <element name="OPeratorMsgCode" type="string"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="UserMsgCode" type="string"/>
                <element name="OperatorMsgCode" type="string"/>
```

```
            </sequence>
        </complexType>
    </element>
    <element name="Transaction">
        <complexType>
            <sequence>
                <element ref="pd:Program"/>
            </sequence>
        </complexType>
    </element>
    <element name="Program">
        <complexType>
            <sequence>
                    < element name="OperatorCode" type="string" minOccurs="1" maxOccurs="1"/>
                    < element name="FlowDate" type="date" minOccurs="1" maxOccurs="1"/>
                    < element name="UnitId" type="pd:lengthSixtyType" minOccurs="1" maxOccurs="1"/>
                    < element name="Interval" type="pd:periodIntervalType" minOccurs="1" maxOccurs="1"/>
                    < element name="Direction" type="pd:tyProgramDirection" minOccurs="1" maxOccurs="1"/>
                    < element name="OperationType" type="pd:tyProgramOperationType" minOccurs="1" maxOccurs="1"/>
                    < element name="Qty" type="pd:localeDecimal" minOccurs="1" maxOccurs="1"/>
          </sequence>
       </complexType>
</schema>
```

## *Fattura*

```
<?xml version='1.0' encoding='ISO-8859-1' ?>
<PIPEDocument xmlns = "urn:XML-PIPE"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation = "urn:XML-PIPE PIPEDocument.xsd"
   ReferenceNumber="001310620" CreationDate="20040116112844" Version="1.0">

      <TradingPartnerDirectory>
            <Sender>
                  <TradingPartner PartnerType = "Operator">
                        <CompanyName>GME</CompanyName>
                        <CompanyIdentifier>IDGME</CompanyIdentifier>
                  </TradingPartner>
            </Sender>
            <Recipient>
                  <TradingPartner PartnerType = "Market Participant">
                        <CompanyName>AcquirenteUnico</CompanyName>
                        <CompanyIdentifier>IDAU</CompanyIdentifier>
                  </TradingPartner>
            </Recipient>
      </TradingPartnerDirectory>

      <PIPTransaction ReferenceNumber ="PIPRFN2004116102841539" InboundMessageCreationDate ="20040116"
InboundMessageCreationTime ="112841540">
            <Fattura>
                  <DOCUMENT>C</DOCUMENT>
                  <DOCUMENT_ID>40160000046256</DOCUMENT_ID>
                  <HeaderFattura>
                        <ABP_ID>40160000046256</ABP_ID>
                        <ACCOUNT_NUMBER>1749053</ACCOUNT_NUMBER>
                        <DOCUMENT_DATE>20040120</DOCUMENT_DATE>
                        <DOCUMENT_TYPE>ME</DOCUMENT_TYPE>
                        <TRX_TYPE>BID</TRX_TYPE>
                        <PERIOD>012004</PERIOD>
                        <TAX_REFERENCE_FROM>1234567890123456789</TAX_REFERENCE_FROM>
                        <OP_NAME_FROM>Gestore del Mercato Elettrico S.P.A.</OP_NAME_FROM>
                        <SDC_CODE_FROM>IDGME</SDC_CODE_FROM>
```

```
            <STREET_FROM>Via Palmiano 101</STREET_FROM>
            <CITY_FROM>Roma</CITY_FROM>
            <PROVINCE_FROM>RM</PROVINCE_FROM>
            <ZIPCODE_FROM>00197</ZIPCODE_FROM>
            <COUNTRY_FROM>ITA</COUNTRY_FROM>
            <LEGAL_NOTES_FROM/>
            <PHONE_FROM>55-55-555-5555</PHONE_FROM>
            <FAX_FROM/>
            <EMAIL_FROM/>
            <DOCUMENT_OBJECT>Operazioni svolte sul mercato elettrico nel periodo indicato</DOCUMENT_OBJECT>
            <TAX_INFO/>
            <PAYMENT_INFO>Pagamenti come da art. 66 e seguenti Disciplina del Mercato Elettrico</PAYMENT_INFO>
            <INVOICE_NOTE1/>
            <TAX_REFERENCE_TO/>
            <OP_NAME_TO>AcquirenteUnico</OP_NAME_TO>
            <SDC_CODE_TO>IDAU</SDC_CODE_TO>
            <STREET_TO>x</STREET_TO>
            <CITY_TO>x</CITY_TO>
            <PROVINCE_TO>RM</PROVINCE_TO>
            <ZIPCODE_TO>X</ZIPCODE_TO>
            <COUNTRY_TO>ITA</COUNTRY_TO>
            <STREET_TO_2/>
            <CITY_TO_2/>
            <PROVINCE_TO_2/>
            <ZIPCODE_TO_2/>
            <COUNTRY_TO_2/>
            <AMOUNT>21.505.517,82</AMOUNT>
            <TAX_AMOUNT>4.301.103,56</TAX_AMOUNT>
            <TOTAL_AMOUNT>25.806.621,38</TOTAL_AMOUNT>
            <QUANTITY>1.512,000</QUANTITY>
            <INVOICE_NUMBER/>
            <INVOICE_DATE/>
            <INVOICE_DUE_DATE/>
      </HeaderFattura>
      <Summary1>
            <AMOUNT>21.505.517,82</AMOUNT>
            <TAX_CODE>V1</TAX_CODE>
            <TAX_AMOUNT>4.301.103,56</TAX_AMOUNT>
            <TOTAL_AMOUNT>25.806.621,38</TOTAL_AMOUNT>
            <QUANTITY>1.512,000</QUANTITY>
```

```
                </Summary1>
                <Summary2>
                      <TAX_CODE>V1</TAX_CODE>
                      <MARKET>MGP</MARKET>
                      <AMOUNT>8.492.809,50</AMOUNT>
                      <QUANTITY>812,000</QUANTITY>
                </Summary2>
                <Summary2>
                      <TAX_CODE>V1</TAX_CODE>
                      <MARKET>MI1</MARKET>
                      <AMOUNT>13.012.708,32</AMOUNT>
                      <QUANTITY>700,000</QUANTITY>
                </Summary2>
                <Summary3>
                      <TAX_CODE>V1</TAX_CODE>
                      <MARKET>MGP</MARKET>
                      <UNIT_CODE/>
                      <UNIT_TYPE>CONS</UNIT_TYPE>
                      <FLOW_DATE>20040120</FLOW_DATE>
                      <UNIT_OF_MEASURE>MW</UNIT_OF_MEASURE>
                      <AMOUNT>8.492.809,50</AMOUNT>
                      <QUANTITY>812,000</QUANTITY>
                </Summary3>
                <Summary3>
                      <TAX_CODE>V1</TAX_CODE>
                      <MARKET>MI1</MARKET>
                      <UNIT_CODE/>
                      <UNIT_TYPE>CONS</UNIT_TYPE>
                      <FLOW_DATE>20040120</FLOW_DATE>
                      <UNIT_OF_MEASURE>MW</UNIT_OF_MEASURE>
                      <AMOUNT>13.012.708,32</AMOUNT>
                      <QUANTITY>700,000</QUANTITY>
                </Summary3>
          </Fattura>
    </PIPTransaction></PIPEDocument>
```

## *PIPEDocument.xsd for Fattura*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- UnitSchedule -->
<!-- PIPE version="1.0" -->
<!-- $Revision: 6 $ -->
<!-- GME JSP -->
<schema targetNamespace="urn:XML-PIPE" xmlns="http://www.w3.org/2001/XMLSchema" xmlns:pd="urn:XML-PIPE" elementFormDefault="qualified">
    <include schemaLocation="SimpleTypesv1_0.xsd"/>
    <simpleType name="creationDateTimeType">
        <restriction base="integer">
            <minInclusive value="19000000000000"/>
            <maxInclusive value="21000000000000"/>
        </restriction>
    </simpleType>
    <!-- Body -->
    <element name="PIPEDocument">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartnerDirectory"/>
                <element ref="pd:PIPTransaction" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="CreationDate" type="pd:creationDateTimeType" use="required"/>
            <attribute name="Version" type="string" use="required"/>
        </complexType>
    </element>
    <element name="TradingPartnerDirectory">
        <complexType>
            <sequence>
                <element ref="pd:Sender"/>
                <element ref="pd:Recipient"/>
            </sequence>
        </complexType>
    </element>
    <element name="Sender">
        <complexType>
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="Recipient">
        <complexType>
```

```
            <sequence>
                <element ref="pd:TradingPartner"/>
            </sequence>
        </complexType>
    </element>
    <element name="TradingPartner">
        <complexType>
            <sequence>
                <element name="CompanyName" type="string"/>
                <element name="CompanyIdentifier" type="string"/>
            </sequence>
            <attribute name="PartnerType" type="string"/>
        </complexType>
    </element>
    <element name="PIPTransaction">
        <complexType>
            <sequence>
                <element ref="pd:Fattura"/>
            </sequence>
            <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
            <attribute name="InboundMessageCreationDate" type="pd:creationDateType" use="optional"/>
            <attribute name="InboundMessageCreationTime" type="pd:creationTimeMillisecsType" use="optional"/>
        </complexType>
    </element>
    <element name="Fattura">
        <complexType>
            <sequence>
                <element name="DOCUMENT" type="string"/>
                <element name="DOCUMENT_ID" type="string"/>
                <element ref="pd:HeaderFattura"/>
                <element name="Summary1" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <sequence>
                            <element name="AMOUNT" type="string"/>
                            <element name="TAX_CODE" type="string"/>
                            <element name="TAX_AMOUNT" type="string"/>
                            <element name="TOTAL_AMOUNT" type="string"/>
                            <element name="QUANTITY" type="string"/>
                        </sequence>
                    </complexType>
                </element>
                <element name="Summary2" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <sequence>
                            <element name="TAX_CODE" type="string"/>
                            <element name="MARKET" type="string"/>
                            <element name="AMOUNT" type="string"/>
```

```
                        <element name="QUANTITY" type="string"/>
                    </sequence>
                </complexType>
            </element>
            <element name="Summary3" minOccurs="0" maxOccurs="unbounded">
                <complexType>
                    <sequence>
                        <element name="TAX_CODE" type="string"/>
                        <element name="MARKET" type="string"/>
                        <element name="UNIT_CODE" type="string"/>
                        <element name="UNIT_TYPE" type="string"/>
                        <element name="FLOW_DATE" type="string"/>
                        <element name="UNIT_OF_MEASURE" type="string"/>
                        <element name="AMOUNT" type="string"/>
                        <element name="QUANTITY" type="string"/>
                    </sequence>
                </complexType>
            </element>
            <element ref="pd:ElencoLinee"/>
        </sequence>
    </complexType>
</element>
<element name="HeaderFattura">
    <complexType>
        <sequence>
            <element name="ABP_ID" type="string"/>
            <element name="ACCOUNT_NUMBER" type="string"/>
            <element name="DOCUMENT_DATE" type="string"/>
            <element name="DOCUMENT_TYPE" type="string"/>
            <element name="TRX_TYPE" type="string"/>
            <element name="PERIOD" type="string"/>
            <element name="TAX_REFERENCE_FROM" type="string"/>
            <element name="OP_NAME_FROM" type="string"/>
            <element name="SDC_CODE_FROM" type="string"/>
            <element name="STREET_FROM" type="string"/>
            <element name="CITY_FROM" type="string"/>
            <element name="PROVINCE_FROM" type="string"/>
            <element name="ZIPCODE_FROM" type="string"/>
            <element name="COUNTRY_FROM" type="string"/>
            <element name="LEGAL_NOTES_FROM" type="string"/>
            <element name="PHONE_FROM" type="string"/>
            <element name="FAX_FROM" type="string"/>
            <element name="EMAIL_FROM" type="string"/>
            <element name="DOCUMENT_OBJECT" type="string"/>
            <element name="TAX_INFO" type="string"/>
            <element name="PAYMENT_INFO" type="string"/>
            <element name="INVOICE_NOTE1" type="string"/>
```

```
                <element name="TAX_REFERENCE_TO" type="string"/>
                <element name="OP_NAME_TO" type="string"/>
                <element name="SDC_CODE_TO" type="string"/>
                <element name="STREET_TO" type="string"/>
                <element name="CITY_TO" type="string"/>
                <element name="PROVINCE_TO" type="string"/>
                <element name="ZIPCODE_TO" type="string"/>
                <element name="COUNTRY_TO" type="string"/>
                <element name="STREET_TO_2" type="string"/>
                <element name="CITY_TO_2" type="string"/>
                <element name="PROVINCE_TO_2" type="string"/>
                <element name="ZIPCODE_TO_2" type="string"/>
                <element name="COUNTRY_TO_2" type="string"/>
                <element name="AMOUNT" type="string"/>
                <element name="TAX_AMOUNT" type="string"/>
                <element name="QUANTITY" type="string"/>
                <element name="TOTAL_AMOUNT" type="string"/>
                <element name="INVOICE_NUMBER" type="string"/>
                <element name="INVOICE_DATE" type="string"/>
                <element name="INVOICE_DUE_DATE" type="string"/>
            </sequence>
        </complexType>
    </element>
</schema>
```

## *SimpleTypesv1_0.xsd (to be included in every schema)*

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- Simple Types Schema for Xerces C++-->
<!-- PIPE version="1.0" -->
<!-- $Revision: 57 $ -->
<!-- Shared -->


<schema xmlns="http://www.w3.org/2001/XMLSchema"

 targetNamespace = "urn:XML-PIPE"
 xmlns:pd = "urn:XML-PIPE"
 elementFormDefault="qualified">


        <simpleType name="creationDateType">
                <restriction base="integer">
                        <minInclusive value="19000000"/>
                        <maxInclusive value="21000000"/>
                </restriction>
        </simpleType>
        <simpleType name="creationTimeType">
                <restriction base="integer">
                        <minInclusive value="0"/>
                        <maxInclusive value="23595999"/>
                </restriction>
        </simpleType>
  <simpleType name="creationTimeMillisecsType">
                <restriction base="integer">
                        <minInclusive value="0"/>
                        <maxInclusive value="235959999"/>
                </restriction>
        </simpleType>
        <simpleType name="currencyEuroType">
                <restriction base="string">
                        <enumeration value="Euro"/>
                </restriction>
        </simpleType>

        <simpleType name="dateType">
                <restriction base="integer">
                        <pattern value="\d{8}"/>
                </restriction>
```

```
        </simpleType>

 <simpleType name="validDateType">
                <restriction base="integer">
                        <minInclusive value="20000101"/>
                        <maxInclusive value="24991231"/>
                </restriction>
        </simpleType>


        <simpleType name="dealMakerType">
                <restriction base="string">
                        <enumeration value="GME"/>
                </restriction>
        </simpleType>

        <simpleType name="hourIntervalType">
                <restriction base="integer">
                        <minInclusive value="1"/>
                        <maxInclusive value="25"/>
                </restriction>
        </simpleType>

        <simpleType name="PeriodIntervalType">
                <restriction base="integer">
                        <minInclusive value="1"/>
                        <maxInclusive value="100"/>
                </restriction>
        </simpleType>

 <!--
        -->
 <simpleType name="quarterIntervalType">
                <restriction base="integer">
                        <minInclusive value="1"/>
                        <maxInclusive value="4"/>
                </restriction>
        </simpleType>
        <simpleType name="minuteType">
                <restriction base="integer">
                        <minInclusive value="0"/>
                        <maxInclusive value="14"/>
                </restriction>
        </simpleType>


        <simpleType name="integerFiveType">
```

```
            <restriction base="integer">
                  <minInclusive value="1"/>
                  <maxInclusive value="99999"/>
            </restriction>
</simpleType>
<simpleType name="integerFifteenType">
            <restriction base="integer">
                  <minInclusive value="0"/>
                  <maxInclusive value="999999999999999"/>
            </restriction>
</simpleType>
<simpleType name="integerTimeType">
            <restriction base="integer">
                  <minInclusive value="0000"/>
                  <maxInclusive value="2400"/>
            </restriction>
</simpleType>
<simpleType name="integerTimeSecondType">
            <restriction base="integer">
                  <minInclusive value="000000"/>
                  <maxInclusive value="240000"/>
            </restriction>
</simpleType>
<simpleType name="interval60Type">
            <restriction base="string">
                  <enumeration value="60"/>
            </restriction>
</simpleType>

<simpleType name="intervalType">
            <restriction base="string">
                  <enumeration value="15"/>
                  <enumeration value="30"/>
                  <enumeration value="60"/>
            </restriction>
</simpleType>
<simpleType name="lengthTwoType">
            <restriction base="string">
                  <minLength value="1"/>
                  <maxLength value="2"/>
            </restriction>
</simpleType>
<simpleType name="lengthThreeType">
            <restriction base="string">
                  <minLength value="1"/>
                  <maxLength value="3"/>
            </restriction>
```

```
</simpleType>
<simpleType name="lengthFiveType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="5"/>
        </restriction>
</simpleType>
<simpleType name="lengthTenType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="10"/>
        </restriction>
</simpleType>
<simpleType name="lengthFifteenType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="15"/>
        </restriction>
</simpleType>
<simpleType name="lengthTwentyType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="20"/>
        </restriction>
</simpleType>
<simpleType name="lengthTwentyFourType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="24"/>
        </restriction>
</simpleType>
<simpleType name="lengthTwentyFiveType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="25"/>
        </restriction>
</simpleType>
<simpleType name="lengthThirtyType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="30"/>
        </restriction>
</simpleType>
<simpleType name="lengthThirtyFiveType">
        <restriction base="string">
                <minLength value="1"/>
                <maxLength value="35"/>
```

```
            </restriction>
    </simpleType>
    <simpleType name="lengthFortyType">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="40"/>
            </restriction>
    </simpleType>
    <simpleType name="lengthFiftyType">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="50"/>
            </restriction>
    </simpleType>
    <simpleType name="lengthSixtyType">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="60"/>
            </restriction>
    </simpleType>
    <simpleType name="lengthSixtyFourType">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="64"/>
            </restriction>
    </simpleType>
    <simpleType name="lengthEightyType">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="80"/>
            </restriction>
    </simpleType>
    <simpleType name="length132Type">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="132"/>
            </restriction>
    </simpleType>
    <simpleType name="length250Type">
            <restriction base="string">
                    <minLength value="1"/>
                    <maxLength value="250"/>
            </restriction>
    </simpleType>
    <simpleType name="lengthFiveHundredType">
            <restriction base="string">
                    <minLength value="1"/>
```

```
                    <maxLength value="500"/>
                </restriction>
        </simpleType>
        <simpleType name="localeDecimal">
                <restriction base="string">
                    <minLength value="1"/>
                </restriction>
        </simpleType>

        <simpleType name="timeResolutionType">
                <restriction base="string">
                    <enumeration value = "PT15"/>
                    <enumeration value = "PT60"/>
                </restriction>
        </simpleType>


        <simpleType name="fifteenMinuteScheduleMarketType">
                <restriction base="string">
                    <enumeration value = "MSD1"/>
                    <enumeration value = "MSD2"/>
                    <enumeration value = "MSD3"/>
                    <enumeration value = "MSD4"/>
                    <enumeration value = "MSD5"/>
                    <enumeration value = "MSD6"/>
                </restriction>
        </simpleType>

         <simpleType name="marketType">
                <restriction base="string">
                    <enumeration value = "MGP"/>
                    <enumeration value = "MI1"/>
                    <enumeration value = "MI2"/>
                    <enumeration value = "MI3"/>
                    <enumeration value = "MB"/>
                    <enumeration value = "MSD1"/>
                    <enumeration value = "MSD2"/>
                    <enumeration value = "MSD3"/>
                    <enumeration value = "MSD4"/>
                    <enumeration value = "MSD5"/>
                    <enumeration value = "MSD6"/>
                    <enumeration value = "MBh"/>
                    <enumeration value = "AFRR"/>
                    <enumeration value = "MFRR"/>
                    <enumeration value = "XB00"/>
                    <enumeration value = "XB01"/>
                    <enumeration value = "XB02"/>
```

```
<enumeration value = "XB03"/>
<enumeration value = "XB04"/>
<enumeration value = "XB05"/>
<enumeration value = "XB06"/>
<enumeration value = "XB07"/>
<enumeration value = "XB08"/>
<enumeration value = "XB09"/>
<enumeration value = "XB10"/>
<enumeration value = "XB11"/>
<enumeration value = "XB12"/>
<enumeration value = "XB13"/>
<enumeration value = "XB14"/>
<enumeration value = "XB15"/>
<enumeration value = "XB16"/>
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<enumeration value = "XB46"/>
<enumeration value = "XB47"/>
<enumeration value = "XB48"/>
<enumeration value = "XB49"/>
```

```
<enumeration value = "XB50"/>
<enumeration value = "XB51"/>
<enumeration value = "XB52"/>
<enumeration value = "XB53"/>
<enumeration value = "XB54"/>
<enumeration value = "XB55"/>
<enumeration value = "XB56"/>
<enumeration value = "XB57"/>
<enumeration value = "XB58"/>
<enumeration value = "XB59"/>
<enumeration value = "XB60"/>
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<enumeration value = "XB93"/>
<enumeration value = "XB94"/>
<enumeration value = "XB95"/>
<enumeration value = "XB96"/>
```

```
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                        <enumeration value = "XB98"/>
                        <enumeration value = "XB99"/>
                        <enumeration value = "XB100"/>
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        </simpleType>

        <simpleType name="marketBidType">
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                        <enumeration value = "MI1"/>
                        <enumeration value = "MI2"/>
                        <enumeration value = "MI3"/>
                        <enumeration value = "MSD1"/>
                        <enumeration value = "MBh"/>
                        <enumeration value = "AFRR"/>
                        <enumeration value = "MFRR"/>
                </restriction>
        </simpleType>

        <simpleType name="FeasibilityMarketType">
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                        <enumeration value = "MSD1"/>
                        <enumeration value = "MSD2”/>
                        <enumeration value = "MSD3"/>
                        <enumeration value = "MSD4"/>
                        <enumeration value = "MSD5"/>
                        <enumeration value = "MSD6"/>
                </restriction>
        </simpleType>

        <simpleType name="marketMGPType">
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                </restriction>
        </simpleType>

<simpleType name="conventionalPriceMarketType">
                <restriction base="string">
                        <enumeration value = "MGP"/>
                </restriction>
        </simpleType>

        <simpleType name="noType">
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                        <enumeration value="No"/>
```

```
            </restriction>
    </simpleType>

    <simpleType name="onOffType">
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                    <enumeration value="On"/>
                    <enumeration value="Off"/>
            </restriction>
    </simpleType>
    <simpleType name="partnerDistributorType">
            <restriction base="string">
                    <enumeration value="Distributor"/>
            </restriction>
    </simpleType>
    <simpleType name="partnerTypeType">
            <restriction base="string">
                    <enumeration value="EnergySupplier"/>
                    <enumeration value="Distributor"/>
            <enumeration value="Operator"/>
            <enumeration value="Market Participant"/>
            <enumeration value="Tax Exempt Market Participant"/>
            </restriction>
    </simpleType>

    <simpleType name="pipTransactionType">
            <restriction base="string">
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                    <enumeration value="BidSubmittal"/>
                    <enumeration value="BidAwardResponse"/>
                    <enumeration value="BidAwardRequest"/>
                    <enumeration value="BidNotification"/>
                    <enumeration value="ConventionalUtilizationFactor"/>
                    <enumeration value="EnergyUtilizationCoefficient"/>
                    <enumeration value="EstimatedDemandInformation"/>
                    <enumeration value="EstimatedPriceInformation"/>
                    <enumeration value="RelevantExchangePoint"/>
                    <enumeration value="UnitInformation"/>
                    <enumeration value="UnitMargins"/>
                    <enumeration value="UnitSchedule"/>
                    <enumeration value="FifteenMinuteSchedule"/>
                    <enumeration value="ZoneInformation"/>
                    <enumeration value="GeneralizedConstraintsDetail"/>
                    <enumeration value="FeasibilityIntervals"/>
            </restriction>
    </simpleType>
    <simpleType name="purposeSellType">
            <restriction base="string">
```

```
                    <enumeration value="Sell"/>
                </restriction>
        </simpleType>
        <simpleType name="purposeTradeType">
                <restriction base="string">
                    <enumeration value="Buy"/>
                    <enumeration value="Sell"/>
                </restriction>
        </simpleType>

        <simpleType name="statusAcceptType">
                <restriction base="string">
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                </restriction>
        </simpleType>

        <simpleType name="statusTransactionType">
                <restriction base="string">
                    <enumeration value="Accept"/>
                    <enumeration value="Reject"/>
                </restriction>
        </simpleType>
        <simpleType name="statusRejectType">
                <restriction base="string">
                    <enumeration value="Reject"/>
                </restriction>
        </simpleType>


        <simpleType name="termHourType">
                <restriction base="string">
                    <enumeration value="Hour"/>
                </restriction>
        </simpleType>
        <simpleType name="termRestrictedType">
                <restriction base="string">
                    <enumeration value="Hour"/>
                    <enumeration value="Day"/>
                </restriction>
        </simpleType>
        <simpleType name="timeType">
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                    <pattern value="\d{4}"/>
                </restriction>
        </simpleType>
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                <restriction base="string">
```

```
                    <enumeration value="True"/>
                    <enumeration value="False"/>
            </restriction>
</simpleType>

<simpleType name="unitScheduleType">
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                    <enumeration value="PreliminaryProvisional"/>
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                    <enumeration value="FirstFinal"/>
                    <enumeration value="FirstUpdated"/>
                    <enumeration value="FinalXbid"/>
            </restriction>
</simpleType>



<simpleType name="generalizedContraintsDetailName">
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            </restriction>
</simpleType>


<simpleType name="fifteenMinutesScheduleType">
<restriction base="string">
            <enumeration value="Original"/>
            <enumeration value="Corrected"/>
</restriction>
</simpleType>


<simpleType name="bidTaxCodeType">
<restriction base="string">
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            <enumeration value="V2"/>
            <enumeration value="V3"/>
            <enumeration value="V4"/>
            <enumeration value="V5"/>
            <enumeration value="V8"/>
            <enumeration value="VC"/>
            <enumeration value="VS"/>
            <enumeration value="VR"/>
            <enumeration value="NC"/>
</restriction>
</simpleType>
```

## APPENDIX A - Transaction Examples

```
<simpleType name="offerTaxCodeType">
        <restriction base="string">
                <enumeration value="A1"/>
                <enumeration value="A2"/>
                <enumeration value="A3"/>
                <enumeration value="A4"/>
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                <enumeration value="A8"/>
                <enumeration value="AL"/>
                <enumeration value="AN"/>
                <enumeration value="AS"/>
                <enumeration value="AR"/>
                <enumeration value="NC"/>
        </restriction>
        </simpleType>

<simpleType name="feeTaxCodeType">
        <restriction base="string">
                <enumeration value="V1"/>
                <enumeration value="V3"/>
        </restriction>
        </simpleType>

        <simpleType name="unitOfMeasureBidType">
                <restriction base="string">
                        <enumeration value="MW"/>
                </restriction>
        </simpleType>

        <simpleType name="unitOfMeasureMWhType">
                <restriction base="string">
                        <enumeration value="MW"/>
                </restriction>
        </simpleType>
        <simpleType name="yesNoType">
                <restriction base="string">
                        <enumeration value="Yes"/>
                        <enumeration value="No"/>
                </restriction>
        </simpleType>
        <simpleType name="UnitYESNOType">
                <restriction base="string">
                        <enumeration value="YES"/>
                        <enumeration value="NO"/>
                </restriction>
```

```
</simpleType>
<simpleType name="zoneNameType">
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                 <enumeration value="CSUD"/>
                <enumeration value="NORD"/>
                 <enumeration value="SARD"/>
                <enumeration value="SICI"/>
                <enumeration value="CALA"/>
                 <enumeration value="COAC"/>
                 <enumeration value="COUP"/>
                <enumeration value="GREC"/>
                <enumeration value="AUST"/>
                <enumeration value="SVIZ"/>
                <enumeration value="CORS"/>
                <enumeration value="SLOV"/>
                <enumeration value="FRAN"/>
                <enumeration value="SUD"/>
                <enumeration value="BSP"/>
                <enumeration value="MALT"/>
                <enumeration value="MONT"/>
                <enumeration value="XAUS"/>
                <enumeration value="XFRA"/>
                <enumeration value="XGRE"/>
                <enumeration value="XSVI"/>
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        <restriction base="string">
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                <enumeration value = "InternationalExchanges"/>
                <enumeration value = "BilateralContracts"/>
                <enumeration value = "AllMustRunTypes"/>
                <enumeration value = "AllTypesExceptBilateralContracts"/>
                <enumeration value = "EssentialforSystemSecurity"/>
                <enumeration value = "CIP6"/>
                <enumeration value = "NotprogrammablerenewableSources"/>
                <enumeration value = "OtherrenewableSources"/>
                <enumeration value = "Cogeneration"/>
                <enumeration value = "NationalSources"/>
        </restriction>
 </simpleType>
<simpleType name="scopeType">
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                <enumeration value="AS"/>
                <enumeration value="GR1"/>
```

```
                        <enumeration value="GR2"/>
                        <enumeration value="GR3"/>
                        <enumeration value="GR4"/>
                        <enumeration value="AC"/>
                        <enumeration value="CA"/>
                </restriction>
        </simpleType>
        <simpleType name="quarterType">
                <restriction base="string">
                        <enumeration value="1"/>
                        <enumeration value="2"/>
                        <enumeration value="3"/>
                        <enumeration value="4"/>
                </restriction>
        </simpleType>
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                <restriction base="string">
                        <enumeration value="Rev"/>
                        <enumeration value="Norev"/>
                        <enumeration value="Netting"/>
                </restriction>
        </simpleType>
        <simpleType name="scopeTypeRR">
                <restriction base="string">
                        <enumeration value="GR1"/>
                </restriction>
        </simpleType>
        <simpleType name="tyProgramDirection">
                <restriction base="string">
                        <!-- Immissione -->
                        <enumeration value="I"/>
                        <!-- Prelievo -->
                        <enumeration value="W"/>
                </restriction>
        </simpleType>
        <simpleType name="tyProgramOperationType">
                <restriction base="string">
                        <!-- Sottomesso -->
                        <enumeration value="SUB"/>
                        <!-- Revocato -->
                        <enumeration value="REVOKE"/>
                </restriction>
        </simpleType>
</schema>
```