



# Implementation Guide

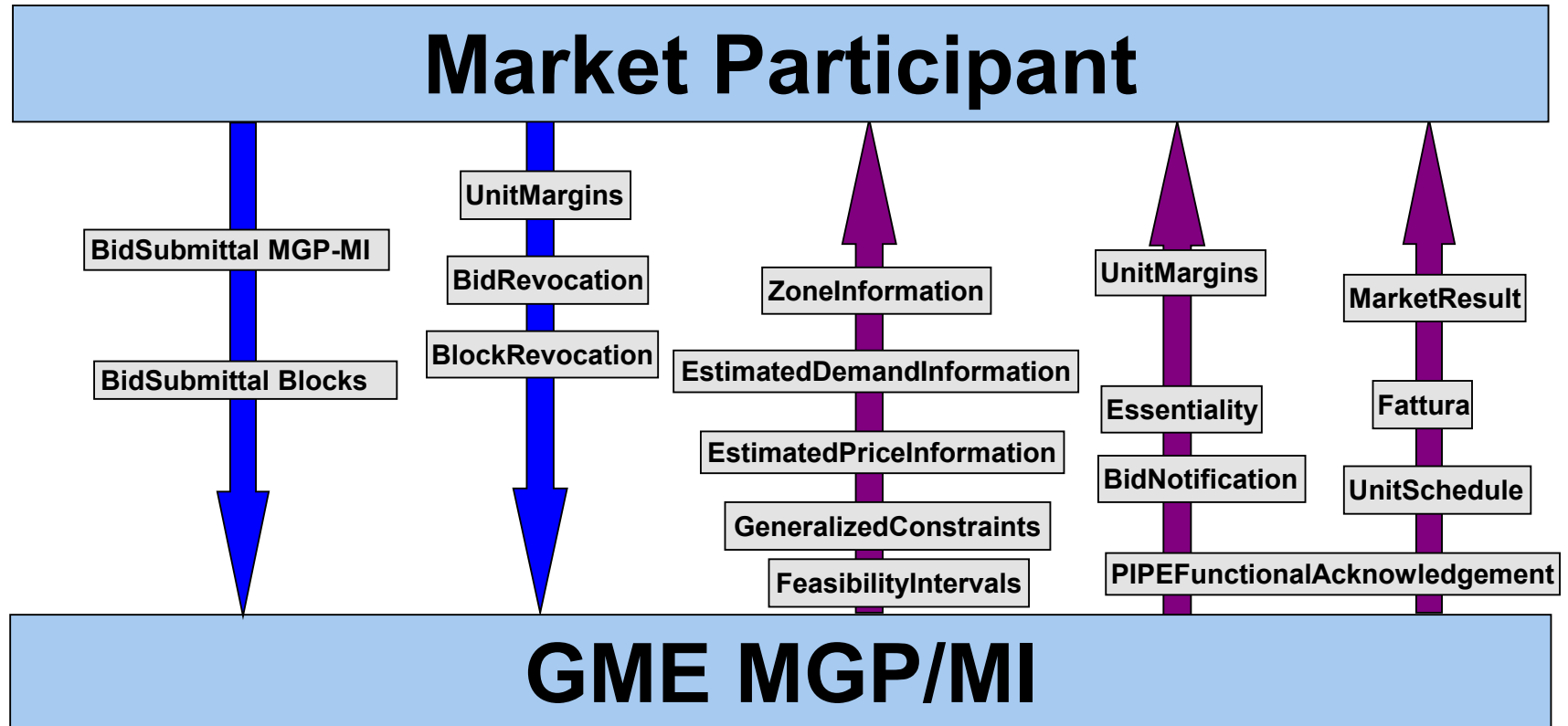
GME Electricity Market Transaction Set

Market Participant Transactions

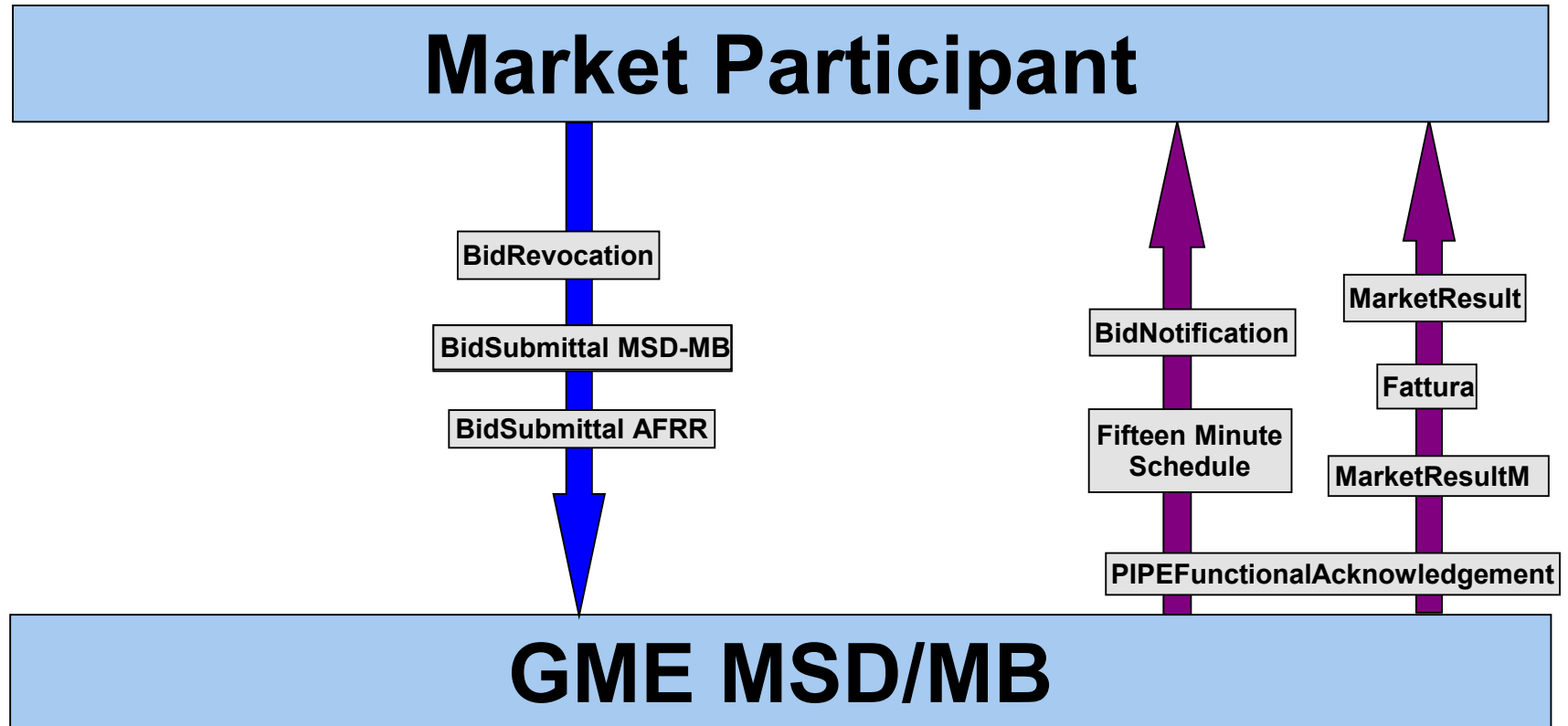
Version 5.1

7 maggio 2025

# MP Transaction Flow MGP



# MP Transaction Flow MSD



# Legend

	Description	Possible Values
<b>Element / Attribute Name</b>	The name of the Element or Attribute used in the XML file	N/A
<b>Attribute / Element</b>	Whether a field is an Attribute or an Element within the XML document	A = Attribute
<b>Valid Information in Field (enumeration)</b>	Validation rules for element or attribute value, including list of possible values in enumeration	
<b>Data Type</b>	Describes the type of data expected in the field	A/N= <u>A</u> lpha <u>N</u> umeric (Field allows for alphabetic values, numeric values, as well as any combination of alphabetic and numeric values)
		N= Numeric (integers only)
		N/A= <u>N</u> ot <u>A</u> pplicable
		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.	
<b>Occurances Min/Max</b>	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 occurrences allowed for the element or attribute and x = the maximum number of occurrences for the element or attribute; or a specification directly of the number of occurrences within another structure, such as "1 per PIPEDocument".
<b>Field Length</b>	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= <u>N</u> ot <u>A</u> pplicable
<b>XML Names</b>	The name of the Element or Attribute as it will appear in the XML file	N/A
<b>Field Display Names</b>	The name of the Element or Attribute as it will appear on the transaction display form within the system	N/A
<b>Definition</b>	The explanation of the Element or Attribute	N/A

Version 5 - DRAFT2

## BidSubmittal Implementation MGP-MI Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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
<b>BidSubmittal</b>		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 Implementation MGP-MI Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
PredefinedOffer	A	Yes or No.	A/N	1/1 for MGP 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 Hour. A value of "No" is used to insert multiple offers.
Market	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) 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
Hour	E	1 through 25. Allowed only in MGP market	N	0/1	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).
Period	E	1 through 100	N	0/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
TimeResolution	E	PT15 PT60	A/N	0/1	4	Resolution of the offer or the block: currently MGP only PT60 and MI 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	MWh (possible solo per MGP) 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 Blocks Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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
<b>BidSubmittalBlock</b>		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 Hour. 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	Occurrences Min/Max	Field Length	Definition
Market	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) 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 for Mix PT60 for MGP	A/N	0/1	4	Resolution of the offer or the block: currently MGP only PT60 and MI 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
<b>Offers</b>		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 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 hour of the day (23.45.00-00.00.00)
Qty	A	Valid decimal value.	Decimal=9999,9	1/1	max=8	The quantity in MW indicated in the blocks for MGP/Mix



## BidSubmittal Implementation MSD-MB Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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
<b>BidSubmittal</b>		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 MSD 0/0 for MBx	3	Indication whether the bid or offer is Predefined (for MGP, MSD and aFRR)
RifStand	A	MI1	A/N	0/1 for MSD 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 Implementation MSD-MB Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Market	E	MSD1 (Dispatching Service Market) 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 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 hour of the day (23.45.00-00.00.00)
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
<b>Offer</b>		N/A	N/A	for MSD 12 for each BidSubmittal 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) AS (Minimo or Spiegimento) GR1 (Gradino 1) GR2 (Gradino 2) GR3 (Gradino 3) GR4 (Gradino 4 - only for MBx) AC CA	A/N	1/1	N/A	Scope of MSD and MBh Offers; for AC an CA Scope only Purpose="Sell" is accepted For aFRR: the step of the offer: GR1, GR2 or GR3
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) UESS (Essential Unit) 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 Implementation aFRR Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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
<b>BidSubmittal</b>		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 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)	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

## BidSubmittal Implementation aFRR Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Period	E	1 through 100	N	1/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
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 prices for aFRR market
SellOffers	E	(see SellOffer data structure)	N/A	1/1	N/A	Element containing selling prices for aFRR market
<b>BuyOffers</b>		N/A	N/A	1/1	N/A	Element containing buying prices for aFRR market
Offer	E	(see Offer data structure)	N/A	3/3	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
<b>SellOffers</b>		N/A	N/A	1/1	N/A	Element containing selling prices for aFRR market
Offer	E	(see Offer data structure)	N/A	3/3	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
<b>Offer</b>		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 for each step in aFRR market
Scope	A	GR1, GR2 or GR3	A/N	1/1	3	Scope of MSD and MBh Offers; for AC an CA Scope only Purpose='Sell' is accepted For aFRR: the step of the offer: GR1, GR2 or GR3

## UnitMargins Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b>						#N/D
<b>Recipient</b>		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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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.
<b>UnitMargins</b>		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	Occurrences Min/Max	Field Length	Definition
<b>UnitDetail</b>		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
Hour	E	1 through 25	N	1/25	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).
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 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 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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
<b>BidRevocation</b>		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) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) MI3 (third session of the IDA Market) MSD1 (Dispatching Service Market) MBh (Balancing Market) MRR (Replacemen Reserve Market) AFRR (automatic 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	Occurrences Min/Max	Field Length	Definition
Hour	E	1 through 25. Allowed only in MGP market	N	0/1	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).
Period	E	1 through 100	N	0/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
TimeResolution	E	PT15 PT60	A/N	0/1	4	Resolution of the offer or the block: currently MGP only PT60 and MI 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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
<b>BidRevocationBlock</b>		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) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) 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 for Mix PT60 for MGP	A/N	0/1	4	Resolution of the offer or the block: currently MGP only PT60 and MI 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	Occurrences 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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
<b>Essentiality</b>		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
<b>EssentialityIntervals</b>		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	Occurrences Min/Max	Field Length	Definition
<b>EssentialityInterval</b>		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	N	1/1		The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
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 hour 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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
<b>FeasibilityIntervals</b>		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	Occurrences Min/Max	Field Length	Definition
Market	E	MSD1 (Dispatching Service Market) MSD2 (Dispatching Service Market - second session) MSD3 (Dispatching Service Market - third session) MSD4 (Dispatching Service Market - forth session) MSD5 (Dispatching Service Market - fifth session) 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
<b>UnitFeasibilityIntervals</b>		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
<b>UnitFeasibilityInterval</b>		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	N	1/1		The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
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 power! 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 hour 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>		N/A	N/A	1 perTrading Partner Directory	N/A	Used to identify the recipient of the PIPEDocument.
<b>Recipient</b>		N/A	N/A	1/1	N/A	Identifies the Market Participants & Operators
TradingPartner	E	(see TradingPartner data structure)	N/A	1/1	N/A	Identifies the Market Participants & Operators
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>FifteenMinuteSchedule</b>		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 Corrected	A/N	1/1	N/A	In Unit Schedule transaction indicates the type of unit schedule: if it's after MGP, Mln, MSD or Xbid. In FifteenMinutesSchedule transaction indicates if it's original or it has been corrected by the system. In MarketResultIMB transaction indicates if the results are Preliminary or Definitive
Market	E	MSD1 (Dispatching Service Market) MSD2 (Dispatching Service Market - second session) MSD3 (Dispatching Service Market - third session) MSD4 (Dispatching Service Market - forth session) MSD5 (Dispatching Service Market - fifth session) 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	Occurrences 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
<b>HourDetail</b>		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/consumed 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>BidNotification</b>		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	Occurrences Min/Max	Field Length	Definition
Scope	A	RS (Secondary Reserve) AS (Minimo or Spegimento) GR1 (Gradino 1) GR2 (Gradino 2) GR3 (Gradino 3) GR4 (Gradino 4 - only for MBx) AC (Accensione) CA (Cambio assetto)	A/N	1/1 for MSD and MB markets 0/0 for MGP and MI markets	3	Scope of MSD and MB Offers; for AC an CA Scope only Purpose="Sell" is accepted For aFRR: the step of the offer: GR1, GR2 or GR3
BAType	A	Rev Norev 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 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 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 0/0 for Status=Accept	N/A	Contains tags that define the reasons for rejection of the transaction.
Market	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) MI3 (third session of the IDA Market) MSD1 (Dispatching Service Market) MSD2 (Dispatching Service Market - second session) MSD3 (Dispatching Service Market - third session) MSD4 (Dispatching Service Market - forth session) MSD5 (Dispatching Service Market - fifth session) MSD6 (Dispatching Service Market - sixth session) MB (Balancing Market)	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) UESS (Essential Unit) CONTR (Contract) 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
Hour	E	1 through 25. Present only in MGP market	N	0/1 present only for MGP	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).

## BidNotification Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Period	E	1 through 100	N	0/1 present for Mix/MSD	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
TimeResolution	E	PT15 PT60	N	0/1 present for Mix/MSD	4	Resolution of the offer or the block: currently MGP only PT60 and MI 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 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 0/0 for MGP and MI and MB	max=8	Quantity reserved by Terna in MSD and MB markets
UnitOfMeasure	A	MWh (only for MGP) MW (for all the other markets)	A/N	0 if BidQuantity is not present 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 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 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 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 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 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
<b>RejectInformation</b>		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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		N/A	N/A	1 per PIPEDocument	N/A	Document type name, stands for Participant Interface Process for Energy.
xml:ns	A	urn:XML-PIPE	A/N	1/1	max=30	Uniquely identifies the XML name space.
xml:ns: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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b>		N/A	N/A	1 perTrading Partner Directory	N/A	#N/D
<b>Recipient</b>		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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>Fattura</b>		N/A	N/A	1 per PIPTransaction	N/A	PIPTransaction containing the Daily Settlement related to one single account
DOCUMENT	E	F C CC	N/A	1/1	max=2	Document type: Invoice, communication, copy of communication
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
<b>HeaderFattura</b>		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 MS BC	N/A	1/1	max=2	Type of document: energy market, reserve markets, bilateral contract transmission 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	Occurrences Min/Max	Field Length	Definition
TRX_TYPE	E	BUY SEL FEE	N/A	1/1	max=3	Type of transaction: Buy, Sell or Fee
PERIOD	E		MMYYYY	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=5000	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 buyer (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
<b>Summary1</b>		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	Occurrences Min/Max	Field Length	Definition
TAX_CODE	E	A1 A2 A3 A4 A5 A6 A7 A8 AL AN AS AR NC V1 V2 V3 V4 V5 V8 VC VS 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
<b>Summary2</b>		N/A	N/A	1 or more per PIPTransaction		#N/D
TAX_CODE	E	A1 A2 A3 A4 A5 A6 A7 A8 AL AN AS AR NC V1 V2 V3 V4 V5 V8 VC VS VR	N/A	1/1	2	TAX Code
MARKET	E	MGP (Day Ahead Market) MI1 (first session of the Intraday Market) MI2 (second session of the Intraday Market) MI3 (third session of the Intraday Market) MI4 (fourth session of the Intraday Market) MI5 (fifth session of the Intraday Market) MSD1 (Dispatching Service Market) MSD2 (Dispatching Service Market - second session) MSD3 (Dispatching Service Market - third session) MSD4 (Dispatching Service Market - forth 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 indicated above

## Fattura Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
QUANTITY	E	Valid number	Decimal=9999,999	1/1	max=18	Total quantity
<b>Summary3</b>		N/A	N/A	0 or more per PIPTransaction		#N/D
TAX_CODE	E	A1 A2 A3 A4 A5 A6 A7 A8 AL AN AS NC V1 V2 V3 V4 V5 V8 VC VS	N/A	1/1	2	TAX Code
MARKET	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) MI3 (third session of the IDA Market) MSD1 (Dispatching Service Market) MSD2 (Dispatching Service Market - second session) MSD3 (Dispatching Service Market - third session) MSD4 (Dispatching Service Market - forth session) MSD5 (Dispatching Service Market - fifth session) 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 CONS 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 indicated above
QUANTITY	E	Valid number	Decimal=9999,999	1/1	max=18	Total quantity
<b>ElencoLinee</b>		N/A	N/A	1 or more per PIPTransaction		
Linea	E	(see Linea data structure)	N/A	1 or more		Each single line
<b>Linea</b>		N/A	N/A	1 or more per PIPTransaction		
UNIT_TYPE	E	PROD CONS BOTH	N/A	1/1	4	Unit type (production, consumption, mixed)
UNIT_CODE	E	N/A	N/A	1/1	16	Unit reference code (not used)
MARKET	E	MGP (Day Ahead Market) MI1 (first session of the Intraday Market) MI2 (second session of the Intraday Market) MI3 (third session of the Intraday Market) MSD (Dispatching Service Market) MB (Balancing Market)	N/A	1/1	6	Market indication
SUPPLY_CODE	E	N/A	N/A	1/1	30	GME Reference Number. NONE means "not used"

## Fattura Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
TAX_CODE	E	A1 A2 A3 A4 A5 A6 A7 A8 AL AN AS AR NC V1 V2 V3 V4 V5 V8 VC VS VR	N/A	1/1	2	TAX Code
FLOW_DATE	E	Valid date	YYYYMMDD	1/1	8	Flow date
PERIOD	E	1 through 100	N	1/1	max=3	The relevant period in the Energy Flow day 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 hour of the day (23.45.00-00.00.00)
TIME_RESOLUTION	E	PT15 PT60	N	1/1	4	Resolution of the offer or the block: currently MGP only PT60 and MI only PT15
UNIT_OF MEASURE	E	MWh	A/N	1/1	3	The unit of measure which describes the Quantity
QUANTITY	E	Valid decimal value.	Decimal=9999,999	1/1	9	The quantity of the bid or offer which has been accepted by the Market
UNIT_SELLING_PRICE	E	Valid currency value	Decimal=9999,999999	1/1	18	The price at which the Quantity was accepted by the Market (Euro)
LINE_AMOUNT	E	Valid currency value	Decimal=9999,99	1/1	18	The value (in Euro) arrived at by multiplying the Quantity by the Unit Selling Price



## UnitSchedules Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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 #N/D
<b>Version 5 - DRAFT</b>						
<b>Recipient</b>		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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>UnitSchedule</b>		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
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 Preliminary FirstUpdated FirstFinal PreliminaryXbid FinalXbid	1/1	max=22	In Unit Schedule transaction indicates the type of unit schedule: if it's after MGP, Mln, MSD or Xbid. In FifteenMinutesSchedule transaction indicates if it's original or it has been corrected by the system. In MarketResultMGB transaction indicates if the results are Preliminary or Definitive
Cummulative	A	Yes or No	A/N	1/1	max=3	The indication if the unit schedule is cummulative or not
Market	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) MI3 (third session of the IDA Market) XB00 (preliminary before MSD1 market) 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

## UnitSchedules Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
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/consumed in a quarter.
Hour	A	1 through 25 (only for MGP)	N	0/1	max=3	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).
TimeResolution	A	PT15 (only for Mix and XBID)	N	0/1	max=3	Resolution of the offer or the block: currently MGP only PT60 and MI 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	0/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
UnitOfMeasure	A	MWh (only for MGP) 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	Occurrences Min/Max	Field Length	Definition
<b>PIPEFunctionalAcknowledgement</b>		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 original transaction.
<b>TradingPartnerDirectory</b>		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.
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<b>Sender</b>		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
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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 unique 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
<b>TransactionAcknowledgement</b>		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 original 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.
<b>RejectInformation</b>		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

## EstimatedDemandInformation Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b> #N/D						
<b>Recipient</b>		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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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 TERN 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
<b>EstimatedDemandInformation</b>		N/A	N/A	1 per PIPTransaction	N/A	A PIPTransaction sent by TERN 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	Occurrences 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
<b>ZoneDetail</b>		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 within 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
Hour	A	1 through 25	N	1 per EstimatedDemand	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).

## MarketResult Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b> #N/D						
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>MarketResult</b>		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	Occurrences Min/Max	Field Length	Definition
<b>MarketDetail</b>		N/A	N/A	1/1	N/A	Detail information referring to a specific Market
Market	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) MI3 (third session of the IDA Market) MSD1 (Dispatching Service Market) MSD2 (Dispatching Service Market - second session) MSD3 (Dispatching Service Market - third session) MSD4 (Dispatching Service Market - forth session) MSD5 (Dispatching Service Market - fifth session) 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
<b>ZoneDetail</b>		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 within the Italian Energy Grid
Interval	E	N/A	N	1/1	N/A	Detail information about the result for the given zone and the hour indicated in the "Hour" attribute
<b>Interval</b>		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 "Hour" attribute
BuyPrice	E	N/A	Decimal=999,999999	1/25	max=10	Closure price of the market for buying offers (for MGP is the PUN Index GME)
SellPrice	E	N/A	Decimal=999,999999	1/25	max=10	Closure price of the market for selling offers
Generation	E	N/A	Decimal=999999,9	1/25	max=10	Total of generation in the zone
Consumption	E	N/A	Decimal=999999,9	1/25	max=10	Total of consumption in the zone
Hour	A	1 through 25 (valid only for MGP)	N	0/1	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).
Period	A	1 through 100 (valid for Mix and MSD)	N	0/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
TimeResolution	A	PT15 (valid for Mix and MSD)	N	0/1	4	Resolution of the offer or the block: currently MGP only PT60 and MI only PT15

## MarketResultMB Implementation Guide for GME

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b> #N/D						
<b>Recipient</b>		N/A	N/A	1 per Trading 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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>MarketResultMB</b>		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	Occurrences Min/Max	Field Length	Definition
Period	E	1 through 100	N	1/1		The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
MarketDetail	E	(see MarketDetail data structure)	N/A	1/1	N/A	Detail information referring to a specific Market
<b>Market</b>		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
<b>MarketDetail</b>		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
<b>ZoneDetail</b>		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 within 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
<b>RSResult</b>		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
<b>ASResult</b>		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)
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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b>						#N/D
<b>Recipient</b>		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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>ZoneInformation</b>		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	Occurrences Min/Max	Field Length	Definition
<b>MarketDetail</b>		N/A	N/A	1 or more per ZoneInformation	N/A	Detail information referring to a specific Market
Market	E	MGP (Day Ahead Market) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) 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
<b>InterZonalDetail</b>		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	1/25	N/A	Contains tags that define the limits between Zones.
<b>InterZonalLimits</b>		N/A	N/A	1/25	N/A	Contains tags that define the limits between Zones.
Hour	E	1 through 25 (only for MGP)	N	0/1	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).
Period	E	1 through 100 (only for Mix)	N	0/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b>						#N/D
<b>Recipient</b>		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
<b>TradingPartner</b>		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
<b>PIPTransaction</b>		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)
<b>GeneralizedConstraintsDetail</b>		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) MI1 (first session of the IDA Market) MI2 (second session of the IDA Market) 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	Occurrences Min/Max	Field Length	Definition
GeneralizedConstraints	E	(see GeneralizedConstraints data structure)	N/A	1 or more	N/A	Collection of tags pertaining to the Generalized Constraints
<b>GeneralizedConstraints</b>		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
<b>GeneralizedConstraint</b>		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)
<b>InterZoneDetail</b>		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
<b>GeneralizedConstraintsDetail</b>		N/A	N/A	1 or more	N/A	Detail information referring to a the Generalized constraints (capacity and ramping information)
Hour	A	1 through 25 (only for MGP)	N	0/1	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).
Period	A	1 through 100 (only for Mix)	N	0/1	max=3	The relevant period in the Power Flow day 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 hour of the day (23.45.00-00.00.00)
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
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	Occurrences Min/Max	Field Length	Definition
<b>PIPEDocument</b>		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.
<b>TradingPartnerDirectory</b>		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.
<b>Sender</b>		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
<b>Version 5 - DRAFT</b> #N/D						
<b>Recipient</b>		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
<b>TradingPartner</b>		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 unique 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
<b>PIPTransaction</b>		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 millisecond, 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
<b>EstimatedPriceInformation</b>		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	Occurrences 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
<b>ZoneDetail</b>		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 within the Italian Energy Grid
EstimatedPrice	E	Valid Number	Decimal=999,999	1/24	N/A	The "Conventional Price" to be used in the valuation of non-priced bids when checking for financial consistency
Hour	A	1 through 25	N	1 per EstimatedPrice	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).

## APPENDIX A - Transaction Examples

### *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>20020320</Date>
      <Market>MGP</Market>
      <UnitDetail>
        <UnitReferenceNumber>UnC2</UnitReferenceNumber>
        <Hour MarginUp='10' MarginDown='10'>1</Hour>
        <Hour MarginUp='10' MarginDown='10'>2</Hour>
        <Hour MarginUp='10' MarginDown='10'>3</Hour>
        <Hour MarginUp='10' MarginDown='10'>4</Hour>
        <Hour MarginUp='10' MarginDown='10'>5</Hour>
        <Hour MarginUp='10' MarginDown='10'>6</Hour>
        <Hour MarginUp='10' MarginDown='10'>7</Hour>
        <Hour MarginUp='10' MarginDown='10'>8</Hour>
      </UnitDetail>
    </UnitMargins>
  </PIPTransaction>
</PIPEDocument>
```



## APPENDIX A - Transaction Examples

```
<Hour MarginUp='10' MarginDown='10'>9</Hour>
<Hour MarginUp='10' MarginDown='10'>10</Hour>
<Hour MarginUp='10' MarginDown='10'>11</Hour>
<Hour MarginUp='10' MarginDown='10'>12</Hour>
<Hour MarginUp='10' MarginDown='10'>13</Hour>
<Hour MarginUp='10' MarginDown='10'>14</Hour>
<Hour MarginUp='10' MarginDown='10'>15</Hour>
<Hour MarginUp='10' MarginDown='10'>16</Hour>
<Hour MarginUp='10' MarginDown='10'>17</Hour>
<Hour MarginUp='10' MarginDown='10'>18</Hour>
<Hour MarginUp='10' MarginDown='10'>19</Hour>
<Hour MarginUp='10' MarginDown='10'>20</Hour>
<Hour MarginUp='10' MarginDown='10'>21</Hour>
<Hour MarginUp='10' MarginDown='10'>22</Hour>
<Hour MarginUp='10' MarginDown='10'>23</Hour>
<Hour MarginUp='10' MarginDown='10'>24</Hour>
</UnitDetail>
</UnitMargins>
</PIPTransaction>

<PIPTransaction>
  <UnitMargins>
    <Date>20020320</Date>
    <Market>MGP</Market>
    <UnitDetail>
      <UnitReferenceNumber>UnP2</UnitReferenceNumber>
      <Hour MarginUp='1000' MarginDown='1000'>1</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>2</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>3</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>4</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>5</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>6</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>7</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>8</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>9</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>10</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>11</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>12</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>13</Hour>
      <Hour MarginUp='1000' MarginDown='1000'>14</Hour>
```

## APPENDIX A - Transaction Examples

```
<Hour MarginUp='1000' MarginDown='1000'>15</Hour>
<Hour MarginUp='1000' MarginDown='1000'>16</Hour>
<Hour MarginUp='1000' MarginDown='1000'>17</Hour>
<Hour MarginUp='1000' MarginDown='1000'>18</Hour>
<Hour MarginUp='1000' MarginDown='1000'>19</Hour>
<Hour MarginUp='1000' MarginDown='1000'>20</Hour>
<Hour MarginUp='1000' MarginDown='1000'>21</Hour>
<Hour MarginUp='1000' MarginDown='1000'>22</Hour>
<Hour MarginUp='1000' MarginDown='1000'>23</Hour>
<Hour MarginUp='1000' MarginDown='1000'>24</Hour>
  </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>
```

## APPENDIX A - Transaction Examples

```
<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="Hour" maxOccurs="25">
              <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>

## APPENDIX A - Transaction Examples

### ***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>20020320</Date>
      <Hour>1</Hour>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MWh'>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>20020320</Date>
    <Hour>24</Hour>
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    <BidQuantity UnitOfMeasure='MWh'>2,4</BidQuantity>
    <EnergyPrice>44,84</EnergyPrice>
  </BidSubmittal>
</PIPTransaction>

</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***Bid Submittal 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>20020320</Date>
      <Hour>1</Hour>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MWh'>2,6</BidQuantity>
      <EnergyPrice>64,86</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>

  <PIPTransaction>
    <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>
      <Market>MGP</Market>
      <Date>20020320</Date>
```



## APPENDIX A - Transaction Examples

```
<Hour>1</Hour>
<UnitReferenceNumber>UnC2</UnitReferenceNumber>
<BidQuantity UnitOfMeasure='MWh'>3,5</BidQuantity>
<EnergyPrice>76,9</EnergyPrice>
</BidSubmittal>
</PIPTransaction>
```

```
<PIPTransaction>
  <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>
    <Market>MGP</Market>
    <Date>20020320</Date>
    <Hour>1</Hour>
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    <BidQuantity UnitOfMeasure='MWh'>2,8</BidQuantity>
    <EnergyPrice>89,02</EnergyPrice>
  </BidSubmittal>
</PIPTransaction>
```

- 
- [etc.]
- 

```
<PIPTransaction>
  <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='Yes'>
    <Market>MGP</Market>
    <Date>20020320</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>20020320</Date>
    <Hour>24</Hour>
```

## APPENDIX A - Transaction Examples

```
<UnitReferenceNumber>UnC2</UnitReferenceNumber>  
<BidQuantity UnitOfMeasure='MWh'>2,6</BidQuantity>  
<EnergyPrice>67,61</EnergyPrice>  
</BidSubmittal>  
</PIPTransaction>
```

```
<PIPTransaction>  
  <BidSubmittal Purpose='Buy' PredefinedOffer='No' ReplacementIndicator='No'>  
    <Market>MGP</Market>  
    <Date>20020320</Date>  
    <Hour>24</Hour>  
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>  
    <BidQuantity UnitOfMeasure='MWh'>1,2</BidQuantity>  
    <EnergyPrice>73,64</EnergyPrice>  
  </BidSubmittal>  
</PIPTransaction>
```

```
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

```
<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"/>
      <choice>
        <element name="Hour" type="pd:hourIntervalType"/>
        <sequence>
          <element name="Period" type="pd:periodIntervalType"/>
          <element name="TimeResolution" type="pd:timeResolutionType minOccurs="0"/>
        </sequence>
      </choice>
      <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"/>
  </complexType>
</element>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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>MI1</Market>
      <Date>20020916</Date>
      <Period>1</Period>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <BidQuantity UnitOfMeasure='MW'>1000</BidQuantity>
      <EnergyPrice>30</EnergyPrice>
    </BidSubmittal>
  </PIPTransaction>

</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

```
<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>
```



## APPENDIX A - Transaction Examples

### ***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>
      <Offers>
        <Offer Period="1" Qty="0,1"/>
        <Offer Period="2" Qty="0,1"/>
        <Offer Period="3" Qty="0,1"/>
      </Offers>
    </BidSubmittalBlock>
  </PIPTransaction>
```

## APPENDIX A - Transaction Examples

```
<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>
    <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>
    <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>
```

## APPENDIX A - Transaction Examples

```
<MinimumAcceptanceRatio>0,3</MinimumAcceptanceRatio>
<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>
    <Offers>
      <Offer Period="15" Qty="0,1"/>
      <Offer Period="16" Qty="0,1"/>
    </Offers>
  </BidSubmittalBlock>
</PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

</element>  
</schema>

## APPENDIX A - Transaction Examples

### ***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>MSD</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>
      </Offer>
    </BidSubmittal>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<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>
```



## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

### ***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>
</schema>
```

## APPENDIX A - Transaction Examples

```
        </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"/>
                                </simpleContent>
                            </complexType>
                        </element>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
```

## APPENDIX A - Transaction Examples

```

                                <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>
```

## APPENDIX A - Transaction Examples

### ***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>
      </Offer>
    </BidSubmittal>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<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'>
```

## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

```
<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>
```



## APPENDIX A - Transaction Examples

```
        <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>
```

## APPENDIX A - Transaction Examples

### ***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="1900000000000000"/>
      <maxInclusive value="2100000000000000"/>
    </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>
</schema>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

### ***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_XXXXXX</UnitReferenceNumber>
      <BuyOffers>
        <Offer Price="3,01" Scope="GR1" />
        <Offer Price="2,01" Scope="GR2" />
        <Offer Price="1,01" Scope="GR3" />
      </BuyOffers>
      <SellOffers>
        <Offer Price="1,03" Scope="GR1" />
        <Offer Price="2,03" Scope="GR2" />
      </SellOffers>
    </BidSubmittal>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
                <Offer Price="3,03" Scope="GR3" />
            </SellOffers>
        </BidSubmittal>
    </PIPTransaction>

    <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" />
                <Offer Price="2,01" Scope="GR2" />
                <Offer Price="1,01" Scope="GR3" />
            </BuyOffers>
            <SellOffers>
                <Offer Price="1,03" Scope="GR1" />
                <Offer Price="3,03" Scope="GR2" />
                <Offer Price="5,03" Scope="GR3" />
            </SellOffers>
        </BidSubmittal>
    </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

```
                <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:quarterPeriodIntervalType"/>
                <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                <element name="BuyOffers" minOccurs="1" maxOccurs="1">
                    <complexType>
                        <sequence>
                            <element name="Offer" minOccurs="3" maxOccurs="3">
                                <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="3" maxOccurs="3">
                                <complexType>
                                    <attribute name="Price" type="pd:localeDecimal" use="required"/>
                                    <attribute name="Scope" type="pd:scopeTypeRR" use="required"/>
                                </complexType>
                            </element>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </complexType>
    </element>
```



## APPENDIX A - Transaction Examples

```

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

## APPENDIX A - Transaction Examples

### ***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>20020721</Date>
      <Hour>1</Hour>
      <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
      <MarketParticipantReferenceNumber>AX0001</MarketParticipantReferenceNumber>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    </BidRevocation>
  </PIPTransaction>

</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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">
```

## 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:BidRevocation"/>
    </sequence>
  </complexType>
</element>
<element name="BidRevocation">
  <complexType>
    <sequence>
      <element name="Market" type="pd:marketType"/>
      <element name="Date" type="pd:dateType"/>
      <choice>
        <element name="Hour" type="pd:hourIntervalType"/>
        <sequence>
          <element name="Period" type="pd:periodIntervalType"/>
          <element name="TimeResolution" type="pd:timeResolutionType minOccurs="0"/>
        </sequence>
      </choice>
      <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>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

### ***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"/>
      <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>
```

## APPENDIX A - Transaction Examples

### ***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>
      </HourDetail>
    </FifteenMinuteSchedule>
  </PIPTransaction>
</PIPEDocument>
```



## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

### ***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">
```

## 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: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>
  </complexType>
</element>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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" />
      </UnitFeasibilityInterval>
    </UnitFeasibilityIntervals>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<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" />
```

## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

### ***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>
```



## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### *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>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

</schema>

## APPENDIX A - Transaction Examples

### ***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>20020320</Date>
      <Hour>24</Hour>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <AwardedQuantity UnitOfMeasure ="MWh">1,2</AwardedQuantity>
      <AwardedPrice>11,88</AwardedPrice>
      <AwardedValue>14,26</AwardedValue>
    </BidNotification>

  </PIPTransaction>
```



## APPENDIX A - Transaction Examples

```
<PIPTransaction Status ="Accept" ReferenceNumber ="21360001047257" InboundMessageCreationDate ="20020516"
InboundMessageCreationTime ="174759016">
  <BidNotification Purpose ="Buy" PartialAcceptedQuantityIndicator ="No">
    <Market>MGP</Market>
    <MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
    <GMEReferenceNumber>21360546158130</GMEReferenceNumber>
    <Date>20020320</Date>
    <Hour>24</Hour>
    <UnitReferenceNumber>UnC2</UnitReferenceNumber>
    <AwardedQuantity UnitOfMeasure ="MWh">2,7</AwardedQuantity>
    <AwardedPrice>11,88</AwardedPrice>
    <AwardedValue>32,08</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>20020320</Date>
    <Hour>24</Hour>
    <UnitReferenceNumber>UnP2</UnitReferenceNumber>
    <AwardedQuantity UnitOfMeasure ="MWh">69,4</AwardedQuantity>
    <AwardedPrice>11,88</AwardedPrice>
    <AwardedValue>-824,47</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>
```

## APPENDIX A - Transaction Examples

```
</RejectInformation>
<Market>MGP</Market>
<MarketParticipantNumber>PRIMOP</MarketParticipantNumber>
<GMEReferenceNumber>21360546158202</GMEReferenceNumber>
<Date>20020320</Date>
<Hour>24</Hour>
<UnitReferenceNumber>UnP2</UnitReferenceNumber>
<BidQuantity UnitOfMeasure ="MWh">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>20020320</Date>
    <Hour>24</Hour>
    <UnitReferenceNumber>UnP2</UnitReferenceNumber>
    <BidQuantity UnitOfMeasure ="MWh">55,1</BidQuantity>
    <EnergyPrice>15,25</EnergyPrice>
  </BidNotification>
</PIPTransaction></PIPEDocument>

</PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>20091219</Date>
      <Period>1</Period>
      <TimeResolution>PT15</TimeResolution>
      <UnitReferenceNumber> UnP2</UnitReferenceNumber>
      <AwardedQuantity UnitOfMeasure = "MW">3,001</AwardedQuantity>
      <AwardedPrice>2,000000</AwardedPrice>
      <AwardedValue>6,00</AwardedValue>
      <ReservedQuantity UnitOfMeasure = "MW">2,000</ReservedQuantity>
    </BidNotification>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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>20091219</Date>
      <Hour>1</Hour>
      <UnitReferenceNumber> UnP2</UnitReferenceNumber>
      <AwardedQuantity UnitOfMeasure = "MW">3,001</AwardedQuantity>
      <AwardedPrice>2,000000</AwardedPrice>
      <AwardedValue>6,00</AwardedValue>
    </BidNotification>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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="1900000000000000"/>
      <maxInclusive value="2100000000000000"/>
    </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>
```

## APPENDIX A - Transaction Examples

```
                <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="Hour" type="pd:hourIntervalType" minOccurs="0"/>
                    <element name="Period" type="pd:periodIntervalType"/>
                    <element name="TimeResolution" type="pd:timeResolutionType"/>
                    <element name="UnitReferenceNumber" type="pd:lengthSixtyType"/>
                    <element name="AwardedQuantity">
                        <complexType>
```



## APPENDIX A - Transaction Examples

```
        <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="Hour" type="pd:hourIntervalType" minOccurs="0"/>
    <element name="Period" type="pd:periodIntervalType" minOccurs="0"/>
    <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: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"/>
```

## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

### 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" Cumulative ="No" MarketParticipantNumber ="PRIMOP">
      <Market>MGP</Market>
      <Date>20020320</Date>
      <UnitReferenceNumber>UnC2</UnitReferenceNumber>
      <ReferenceMarketParticipantNumber>PRIMOP</ReferenceMarketParticipantNumber>
      <Quantity Hour ="1" UnitOfMeasure="MWh">8,3</Quantity>
      <Quantity Hour ="2" UnitOfMeasure="MWh">8,1</Quantity>
      <Quantity Hour ="3" UnitOfMeasure="MWh">9,1</Quantity>
      <Quantity Hour ="4" UnitOfMeasure="MWh">7,7</Quantity>
      <Quantity Hour ="5" UnitOfMeasure="MWh">9,1</Quantity>
      <Quantity Hour ="6" UnitOfMeasure="MWh">8,0</Quantity>
      <Quantity Hour ="7" UnitOfMeasure="MWh">8,1</Quantity>
      <Quantity Hour ="8" UnitOfMeasure="MWh">8,3</Quantity>
    </UnitSchedule>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<Quantity Hour ="9" UnitOfMeasure="MWh">8,4</Quantity>
<Quantity Hour ="10" UnitOfMeasure="MWh">8,8</Quantity>
<Quantity Hour ="11" UnitOfMeasure="MWh">5,9</Quantity>
<Quantity Hour ="12" UnitOfMeasure="MWh">5,9</Quantity>
<Quantity Hour ="13" UnitOfMeasure="MWh">9,8</Quantity>
<Quantity Hour ="14" UnitOfMeasure="MWh">5,8</Quantity>
<Quantity Hour ="15" UnitOfMeasure="MWh">9,8</Quantity>
<Quantity Hour ="16" UnitOfMeasure="MWh">9,9</Quantity>
<Quantity Hour ="17" UnitOfMeasure="MWh">9,8</Quantity>
<Quantity Hour ="18" UnitOfMeasure="MWh">9,7</Quantity>
<Quantity Hour ="19" UnitOfMeasure="MWh">9,7</Quantity>
<Quantity Hour ="20" UnitOfMeasure="MWh">9,1</Quantity>
<Quantity Hour ="21" UnitOfMeasure="MWh">9,1</Quantity>
<Quantity Hour ="22" UnitOfMeasure="MWh">9,0</Quantity>
<Quantity Hour ="23" UnitOfMeasure="MWh">9,0</Quantity>
<Quantity Hour ="24" UnitOfMeasure="MWh">8,9</Quantity>
```

```
</UnitSchedule>
```

```
</PIPTransaction>
```

```
<PIPTransaction ReferenceNumber ="21360001052063" InboundMessageCreationDate ="20020516" InboundMessageCreationTime
="180226280">
```

```
<UnitSchedule Type ="Preliminary" Cumulative ="No" MarketParticipantNumber ="PRIMOP">
```

```
<Market>MGP</Market>
```

```
<Date>20020320</Date>
```

```
<UnitReferenceNumber>UnP2</UnitReferenceNumber>
```

```
<ReferenceMarketParticipantNumber>PRIMOP</ReferenceMarketParticipantNumber>
```

```
<Quantity Hour ="1" UnitOfMeasure="MWh">144,2</Quantity>
```

```
<Quantity Hour ="2" UnitOfMeasure="MWh">147,8</Quantity>
```

```
<Quantity Hour ="3" UnitOfMeasure="MWh">151,6</Quantity>
```

```
<Quantity Hour ="4" UnitOfMeasure="MWh">155,3</Quantity>
```

```
<Quantity Hour ="5" UnitOfMeasure="MWh">153,4</Quantity>
```

```
<Quantity Hour ="6" UnitOfMeasure="MWh">147,9</Quantity>
```

```
<Quantity Hour ="7" UnitOfMeasure="MWh">137,0</Quantity>
```

```
<Quantity Hour ="8" UnitOfMeasure="MWh">120,6</Quantity>
```

```
<Quantity Hour ="9" UnitOfMeasure="MWh">114,7</Quantity>
```

```
<Quantity Hour ="10" UnitOfMeasure="MWh">103,3</Quantity>
```

```
<Quantity Hour ="11" UnitOfMeasure="MWh">91,8</Quantity>
```

```
<Quantity Hour ="12" UnitOfMeasure="MWh">86,6</Quantity>
```

```
<Quantity Hour ="13" UnitOfMeasure="MWh">101,3</Quantity>
```

```
<Quantity Hour ="14" UnitOfMeasure="MWh">87,8</Quantity>
```

## APPENDIX A - Transaction Examples

```
<Quantity Hour ="15" UnitOfMeasure="MWh">94,7</Quantity>
<Quantity Hour ="16" UnitOfMeasure="MWh">105,3</Quantity>
<Quantity Hour ="17" UnitOfMeasure="MWh">110,3</Quantity>
<Quantity Hour ="18" UnitOfMeasure="MWh">109,9</Quantity>
<Quantity Hour ="19" UnitOfMeasure="MWh">112,2</Quantity>
<Quantity Hour ="20" UnitOfMeasure="MWh">62,8</Quantity>
<Quantity Hour ="21" UnitOfMeasure="MWh">66,7</Quantity>
<Quantity Hour ="22" UnitOfMeasure="MWh">67,8</Quantity>
<Quantity Hour ="23" UnitOfMeasure="MWh">68,9</Quantity>
<Quantity Hour ="24" UnitOfMeasure="MWh">70,1</Quantity>
</UnitSchedule>
</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="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" Cumulative = "No" MarketParticipantNumber = "PRIMOP">
      <Market>MIx</Market>
      <Date>20020320</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>
```

## APPENDIX A - Transaction Examples

```
<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></PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>
```



## APPENDIX A - Transaction Examples

```
<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="Hour" type="pd:hourIntervalType" use="optional"/>
              <attribute name="TimeResolution" type="pd:timeResolutionType" use="optional"/>
              <attribute name="Period" type="pd:periodIntervalType" use="optional"/>
              <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>
</sequence>
</complexType>
</element>
```

## APPENDIX A - Transaction Examples

```
        <attribute name="Cumulative" type="pd:yesNoType" use="required"/>
    </complexType>
</element>
</schema>
```

## APPENDIX A - Transaction Examples

### ***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>OEOPl</CompanyName>
        <CompanyIdentifier>OEOPl</CompanyIdentifier>
      </TradingPartner>
    </Recipient>
  </TradingPartnerDirectory>

  <PIPTransaction ReferenceNumber ="42560017207715" InboundMessageCreationDate ="20040912" InboundMessageCreationTime
  ="164234996">
    <ZoneInformation>
      <Date>20040913</Date>
      <MarketDetail>
        <Market>MGP</Market>
        <InterZonalDetail>
          <FromZone>NORD</FromZone>
          <ToZone>CNOR</ToZone>
          <InterZonalLimits>
            <Hour>1</Hour>
            <ConnectionLimit>1200</ConnectionLimit>
            <ConnectionCoefficient>1</ConnectionCoefficient>
          </InterZonalLimits>
        <InterZonalLimits>

```

## APPENDIX A - Transaction Examples

```
<Hour>2</Hour>
<ConnectionLimit>1200</ConnectionLimit>
<ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>3</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>4</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>5</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>6</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>7</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>8</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>9</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
```

## APPENDIX A - Transaction Examples

```
<Hour>10</Hour>
<ConnectionLimit>1200</ConnectionLimit>
<ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>11</Hour>
  <ConnectionLimit>1200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>12</Hour>
  <ConnectionLimit>1300</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>13</Hour>
  <ConnectionLimit>1400</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>14</Hour>
  <ConnectionLimit>1500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>15</Hour>
  <ConnectionLimit>1600</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>16</Hour>
  <ConnectionLimit>1700</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>17</Hour>
  <ConnectionLimit>1800</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
```

## APPENDIX A - Transaction Examples

```
<Hour>18</Hour>
<ConnectionLimit>1900</ConnectionLimit>
<ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>19</Hour>
  <ConnectionLimit>2000</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>20</Hour>
  <ConnectionLimit>2100</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>21</Hour>
  <ConnectionLimit>2200</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>22</Hour>
  <ConnectionLimit>2300</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>23</Hour>
  <ConnectionLimit>2400</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>24</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
</InterZonalDetail>
<InterZonalDetail>
  <FromZone>NORD</FromZone>
  <ToZone>AUST</ToZone>
  <InterZonalLimits>
    <Hour>1</Hour>
```

## APPENDIX A - Transaction Examples

```
<ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>2</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>3</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>4</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>5</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>6</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>7</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>8</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>9</Hour>
```

## APPENDIX A - Transaction Examples

```
<ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>10</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>11</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>12</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>13</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>14</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>15</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>16</Hour>
  <ConnectionLimit>2500</ConnectionLimit>
  <ConnectionCoefficient>1</ConnectionCoefficient>
</InterZonalLimits>
<InterZonalLimits>
  <Hour>17</Hour>
```



## APPENDIX A - Transaction Examples

```
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>18</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>19</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>20</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>21</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>22</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>23</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
    <InterZonalLimits>
        <Hour>24</Hour>
        <ConnectionLimit>2500</ConnectionLimit>
        <ConnectionCoefficient>1</ConnectionCoefficient>
    </InterZonalLimits>
</InterZonalDetail>
```

•

## APPENDIX A - Transaction Examples

- [etc.]
- 

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

## APPENDIX A - Transaction Examples

### ***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="1900000000000000"/>
      <maxInclusive value="2100000000000000"/>
    </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">
```

## 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:ZoneInformation"/>
    </sequence>
    <attribute name="ReferenceNumber" type="pd:lengthThirtyType" use="required"/>
  </complexType>
</element>
<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="25">
                    <complexType>
                      <sequence>
                        <element name="Hour" type="pd:hourIntervalType" minOccurs="0"/>
                      </sequence>
                    </complexType>
                  </element>
                </sequence>
              </complexType>
            </element>
          </sequence>
        </complexType>
      </element>
    </sequence>
  </complexType>
</element>
```



## APPENDIX A - Transaction Examples

### ***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 Hour="1" LimitUp="10000" LimitDown="9999" LimitRamp="3000"
PreviousFlowDateFlowLastHour="0" />
      <GeneralizedConstraintsDetail Hour="2" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
      <GeneralizedConstraintsDetail Hour="3" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
      <GeneralizedConstraintsDetail Hour="4" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
    </GeneralizedConstraint>
  </GeneralizedConstraints>
</GeneralizedConstraintsDetail >
</PIPTransaction >
</PIPEDocument >
```

## APPENDIX A - Transaction Examples

```
<GeneralizedConstraintsDetail Hour="5" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="6" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="7" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="8" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="9" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="10" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="11" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="12" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="13" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="14" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="15" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="16" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="17" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="18" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="19" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="20" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="21" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="22" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="23" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
<GeneralizedConstraintsDetail Hour="24" LimitUp="10000" LimitDown="9999" LimitRamp="3000" />
</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="1900000000000000"/>
      <maxInclusive value="2100000000000000"/>
    </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">
```



## 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:ZoneInformation"/>
    </sequence>
    <attribute name = "ReferenceNumber" type = "pd:lengthThirtyType" use="required"/>
  </complexType>
</element>
<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>
                </sequence>
              </complexType>
            </element>
          </sequence>
        </complexType>
      </element>
    </sequence>
  </complexType>
</element>
</element>
```

## APPENDIX A - Transaction Examples

```
use="optional"/>  
  
<complexType>  
  <attribute name = "Hour" type = "pd:hourIntervalType" use=" optional " />  
  <attribute name = "Period" type = "pd:periodIntervalType" use=" optional"/>  
  <attribute name = "LimitUp" type = "pd:localeDecimal" use="required"/>  
  <attribute name = "LimitDown" type = "pd:localeDecimal" use="required"/>  
  <attribute name = "LimitRamp" type = "pd:localeDecimal" use="optional"/>  
  <attribute name = "LimitRampUp" type = "pd:localeDecimal" use="optional"/>  
  <attribute name = "LimitRampDown" type = "pd:localeDecimal" use="optional"/>  
  <attribute name = "PreviousFlowDateFlowLastHour" type = "pd:localeDecimal"  
  
</complexType>  
</element>  
</sequence>  
<attribute name = "Name" type = "pd:generalizedConstraintsDetailName" use="required"/>  
</complexType>  
</element>  
</sequence>  
</complexType>  
</element>  
</sequence>  
</complexType>  
</element>  
</schema>
```

## APPENDIX A - Transaction Examples

### ***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>20040913</Date>
      <ZoneDetail>
        <Zone>NORD</Zone>
        <EstimatedDemand Hour ="1">100,45</EstimatedDemand>
        <EstimatedDemand Hour ="2">6962,23</EstimatedDemand>
        <EstimatedDemand Hour ="3">6725,78</EstimatedDemand>
        <EstimatedDemand Hour ="4">6607,55</EstimatedDemand>
        <EstimatedDemand Hour ="5">6850,57</EstimatedDemand>
        <EstimatedDemand Hour ="6">7277,5</EstimatedDemand>
        <EstimatedDemand Hour ="7">8472,91</EstimatedDemand>
        <EstimatedDemand Hour ="8">10476,19</EstimatedDemand>
      </ZoneDetail>
    </EstimatedDemandInformation>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<EstimatedDemand Hour ="9">11087,03</EstimatedDemand>
<EstimatedDemand Hour ="10">11481,12</EstimatedDemand>
<EstimatedDemand Hour ="11">11336,62</EstimatedDemand>
<EstimatedDemand Hour ="12">11054,19</EstimatedDemand>
<EstimatedDemand Hour ="13">10614,12</EstimatedDemand>
<EstimatedDemand Hour ="14">10725,78</EstimatedDemand>
<EstimatedDemand Hour ="15">11034,48</EstimatedDemand>
<EstimatedDemand Hour ="16">11277,5</EstimatedDemand>
<EstimatedDemand Hour ="17">11697,87</EstimatedDemand>
<EstimatedDemand Hour ="18">12000</EstimatedDemand>
<EstimatedDemand Hour ="19">11625,62</EstimatedDemand>
<EstimatedDemand Hour ="20">10784,89</EstimatedDemand>
<EstimatedDemand Hour ="21">9950,74</EstimatedDemand>
<EstimatedDemand Hour ="22">9254,52</EstimatedDemand>
<EstimatedDemand Hour ="23">8538,59</EstimatedDemand>
<EstimatedDemand Hour ="24">7206</EstimatedDemand>
</ZoneDetail>
<ZoneDetail>
  <Zone>CNOR</Zone>
  <EstimatedDemand Hour ="1">2600</EstimatedDemand>
  <EstimatedDemand Hour ="2">2465,79</EstimatedDemand>
  <EstimatedDemand Hour ="3">2382,05</EstimatedDemand>
  <EstimatedDemand Hour ="4">2340,18</EstimatedDemand>
  <EstimatedDemand Hour ="5">2426,25</EstimatedDemand>
  <EstimatedDemand Hour ="6">2577,45</EstimatedDemand>
  <EstimatedDemand Hour ="7">3000,82</EstimatedDemand>
  <EstimatedDemand Hour ="8">3710,32</EstimatedDemand>
  <EstimatedDemand Hour ="9">3926,66</EstimatedDemand>
  <EstimatedDemand Hour ="10">4066,23</EstimatedDemand>
  <EstimatedDemand Hour ="11">4015,05</EstimatedDemand>
  <EstimatedDemand Hour ="12">3915,02</EstimatedDemand>
  <EstimatedDemand Hour ="13">3759,17</EstimatedDemand>
  <EstimatedDemand Hour ="14">3798,71</EstimatedDemand>
  <EstimatedDemand Hour ="15">3908,05</EstimatedDemand>
  <EstimatedDemand Hour ="16">3994,12</EstimatedDemand>
  <EstimatedDemand Hour ="17">4142,99</EstimatedDemand>
  <EstimatedDemand Hour ="18">4250</EstimatedDemand>
  <EstimatedDemand Hour ="19">4117,41</EstimatedDemand>
  <EstimatedDemand Hour ="20">3819,65</EstimatedDemand>
  <EstimatedDemand Hour ="21">3524,22</EstimatedDemand>
```

## APPENDIX A - Transaction Examples

```
<EstimatedDemand Hour ="22">3277,64</EstimatedDemand>
<EstimatedDemand Hour ="23">3024,08</EstimatedDemand>
<EstimatedDemand Hour ="24">2600</EstimatedDemand>
</ZoneDetail>
<ZoneDetail>
  <Zone>CSUD</Zone>
  <EstimatedDemand Hour ="1">2990</EstimatedDemand>
  <EstimatedDemand Hour ="2">3191,02</EstimatedDemand>
  <EstimatedDemand Hour ="3">3082,65</EstimatedDemand>
  <EstimatedDemand Hour ="4">3028,46</EstimatedDemand>
  <EstimatedDemand Hour ="5">3139,85</EstimatedDemand>
  <EstimatedDemand Hour ="6">3335,52</EstimatedDemand>
  <EstimatedDemand Hour ="7">3883,42</EstimatedDemand>
  <EstimatedDemand Hour ="8">4801,59</EstimatedDemand>
  <EstimatedDemand Hour ="9">5081,55</EstimatedDemand>
  <EstimatedDemand Hour ="10">5262,18</EstimatedDemand>
  <EstimatedDemand Hour ="11">5195,95</EstimatedDemand>
  <EstimatedDemand Hour ="12">5066,5</EstimatedDemand>
  <EstimatedDemand Hour ="13">4864,81</EstimatedDemand>
  <EstimatedDemand Hour ="14">4915,98</EstimatedDemand>
  <EstimatedDemand Hour ="15">5057,47</EstimatedDemand>
  <EstimatedDemand Hour ="16">5168,86</EstimatedDemand>
  <EstimatedDemand Hour ="17">5361,52</EstimatedDemand>
  <EstimatedDemand Hour ="18">5500</EstimatedDemand>
  <EstimatedDemand Hour ="19">5328,41</EstimatedDemand>
  <EstimatedDemand Hour ="20">4943,08</EstimatedDemand>
  <EstimatedDemand Hour ="21">4560,76</EstimatedDemand>
  <EstimatedDemand Hour ="22">4241,65</EstimatedDemand>
  <EstimatedDemand Hour ="23">3913,52</EstimatedDemand>
  <EstimatedDemand Hour ="24">2990</EstimatedDemand>
</ZoneDetail>
<ZoneDetail>
  <Zone>SUD</Zone>
  <EstimatedDemand Hour ="1">3190</EstimatedDemand>
  <EstimatedDemand Hour ="2">2900,93</EstimatedDemand>
  <EstimatedDemand Hour ="3">2802,41</EstimatedDemand>
  <EstimatedDemand Hour ="4">2753,15</EstimatedDemand>
  <EstimatedDemand Hour ="5">2854,41</EstimatedDemand>
  <EstimatedDemand Hour ="6">3032,29</EstimatedDemand>
  <EstimatedDemand Hour ="7">3530,38</EstimatedDemand>
```

## APPENDIX A - Transaction Examples

```
<EstimatedDemand Hour ="8">4365,08</EstimatedDemand>
<EstimatedDemand Hour ="9">4619,59</EstimatedDemand>
<EstimatedDemand Hour ="10">4783,8</EstimatedDemand>
<EstimatedDemand Hour ="11">4723,59</EstimatedDemand>
<EstimatedDemand Hour ="12">4605,91</EstimatedDemand>
<EstimatedDemand Hour ="13">4422,55</EstimatedDemand>
<EstimatedDemand Hour ="14">4469,07</EstimatedDemand>
<EstimatedDemand Hour ="15">4597,7</EstimatedDemand>
<EstimatedDemand Hour ="16">4698,96</EstimatedDemand>
<EstimatedDemand Hour ="17">4874,11</EstimatedDemand>
<EstimatedDemand Hour ="18">5000</EstimatedDemand>
<EstimatedDemand Hour ="19">4844,01</EstimatedDemand>
<EstimatedDemand Hour ="20">4493,71</EstimatedDemand>
<EstimatedDemand Hour ="21">4146,14</EstimatedDemand>
<EstimatedDemand Hour ="22">3856,05</EstimatedDemand>
<EstimatedDemand Hour ="23">3557,74</EstimatedDemand>
<EstimatedDemand Hour ="24">3185,55</EstimatedDemand>
</ZoneDetail>
<ZoneDetail>
  <Zone>SICI</Zone>
  <EstimatedDemand Hour ="1">910</EstimatedDemand>
  <EstimatedDemand Hour ="2">870,28</EstimatedDemand>
  <EstimatedDemand Hour ="3">840,72</EstimatedDemand>
  <EstimatedDemand Hour ="4">825,94</EstimatedDemand>
  <EstimatedDemand Hour ="5">856,32</EstimatedDemand>
  <EstimatedDemand Hour ="6">909,69</EstimatedDemand>
  <EstimatedDemand Hour ="7">1059,11</EstimatedDemand>
  <EstimatedDemand Hour ="8">1309,52</EstimatedDemand>
  <EstimatedDemand Hour ="9">1385,88</EstimatedDemand>
  <EstimatedDemand Hour ="10">1435,14</EstimatedDemand>
  <EstimatedDemand Hour ="11">1417,08</EstimatedDemand>
  <EstimatedDemand Hour ="12">1381,77</EstimatedDemand>
  <EstimatedDemand Hour ="13">1326,77</EstimatedDemand>
  <EstimatedDemand Hour ="14">1340,72</EstimatedDemand>
  <EstimatedDemand Hour ="15">1379,31</EstimatedDemand>
  <EstimatedDemand Hour ="16">1409,69</EstimatedDemand>
  <EstimatedDemand Hour ="17">1462,23</EstimatedDemand>
  <EstimatedDemand Hour ="18">1500</EstimatedDemand>
  <EstimatedDemand Hour ="19">1453,2</EstimatedDemand>
  <EstimatedDemand Hour ="20">1348,11</EstimatedDemand>
```

## APPENDIX A - Transaction Examples

```
<EstimatedDemand Hour ="21">1243,84</EstimatedDemand>
<EstimatedDemand Hour ="22">1156,81</EstimatedDemand>
<EstimatedDemand Hour ="23">1067,32</EstimatedDemand>
<EstimatedDemand Hour ="24">910</EstimatedDemand>
</ZoneDetail>
<ZoneDetail>
  <Zone>SARD</Zone>
  <EstimatedDemand Hour ="1">480</EstimatedDemand>
  <EstimatedDemand Hour ="2">435,14</EstimatedDemand>
  <EstimatedDemand Hour ="3">420,36</EstimatedDemand>
  <EstimatedDemand Hour ="4">412,97</EstimatedDemand>
  <EstimatedDemand Hour ="5">428,16</EstimatedDemand>
  <EstimatedDemand Hour ="6">454,84</EstimatedDemand>
  <EstimatedDemand Hour ="7">529,56</EstimatedDemand>
  <EstimatedDemand Hour ="8">654,76</EstimatedDemand>
  <EstimatedDemand Hour ="9">692,94</EstimatedDemand>
  <EstimatedDemand Hour ="10">717,57</EstimatedDemand>
  <EstimatedDemand Hour ="11">708,54</EstimatedDemand>
  <EstimatedDemand Hour ="12">690,89</EstimatedDemand>
  <EstimatedDemand Hour ="13">663,38</EstimatedDemand>
  <EstimatedDemand Hour ="14">670,36</EstimatedDemand>
  <EstimatedDemand Hour ="15">689,66</EstimatedDemand>
  <EstimatedDemand Hour ="16">704,84</EstimatedDemand>
  <EstimatedDemand Hour ="17">731,12</EstimatedDemand>
  <EstimatedDemand Hour ="18">750</EstimatedDemand>
  <EstimatedDemand Hour ="19">726,6</EstimatedDemand>
  <EstimatedDemand Hour ="20">674,06</EstimatedDemand>
  <EstimatedDemand Hour ="21">621,92</EstimatedDemand>
  <EstimatedDemand Hour ="22">578,41</EstimatedDemand>
  <EstimatedDemand Hour ="23">533,66</EstimatedDemand>
  <EstimatedDemand Hour ="24">477,83</EstimatedDemand>
</ZoneDetail>
<ZoneDetail>
  <Zone>CALA</Zone>
  <EstimatedDemand Hour ="1">480</EstimatedDemand>
  <EstimatedDemand Hour ="2">435,14</EstimatedDemand>
  <EstimatedDemand Hour ="3">420,36</EstimatedDemand>
  <EstimatedDemand Hour ="4">412,97</EstimatedDemand>
  <EstimatedDemand Hour ="5">428,16</EstimatedDemand>
  <EstimatedDemand Hour ="6">454,84</EstimatedDemand>
```

## APPENDIX A - Transaction Examples

```
<EstimatedDemand Hour ="7">529,56</EstimatedDemand>
<EstimatedDemand Hour ="8">654,76</EstimatedDemand>
<EstimatedDemand Hour ="9">692,94</EstimatedDemand>
<EstimatedDemand Hour ="10">717,57</EstimatedDemand>
<EstimatedDemand Hour ="11">708,54</EstimatedDemand>
<EstimatedDemand Hour ="12">690,89</EstimatedDemand>
<EstimatedDemand Hour ="13">663,38</EstimatedDemand>
<EstimatedDemand Hour ="14">670,36</EstimatedDemand>
<EstimatedDemand Hour ="15">689,66</EstimatedDemand>
<EstimatedDemand Hour ="16">704,84</EstimatedDemand>
<EstimatedDemand Hour ="17">731,12</EstimatedDemand>
<EstimatedDemand Hour ="18">750</EstimatedDemand>
<EstimatedDemand Hour ="19">726,6</EstimatedDemand>
<EstimatedDemand Hour ="20">674,06</EstimatedDemand>
<EstimatedDemand Hour ="21">621,92</EstimatedDemand>
<EstimatedDemand Hour ="22">578,41</EstimatedDemand>
<EstimatedDemand Hour ="23">533,66</EstimatedDemand>
<EstimatedDemand Hour ="24">477,83</EstimatedDemand>
</ZoneDetail>
</EstimatedDemandInformation>
</PIPTransaction></PIPEDocument>
```



## APPENDIX A - Transaction Examples

### ***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="1900000000000000"/>
      <maxInclusive value="2100000000000000"/>
    </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>
</schema>
```

## 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="25">
              <complexType>
                <simpleContent>
                  <extension base = "pd:localeDecimal">
                    <attribute name = "Hour" type = "pd:hourIntervalType" use="required"/>
                  </extension>
                </simpleContent>
              </complexType>
            </element>
          </sequence>
        </complexType>
      </element>
    </sequence>
  </complexType>
</element>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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 Hour ="1">23,24</EstimatedPrice>
        <EstimatedPrice Hour ="2">26,34</EstimatedPrice>
        <EstimatedPrice Hour ="3">29,44</EstimatedPrice>
        <EstimatedPrice Hour ="4">30,99</EstimatedPrice>
        <EstimatedPrice Hour ="5">34,87</EstimatedPrice>
        <EstimatedPrice Hour ="6">38,74</EstimatedPrice>
        <EstimatedPrice Hour ="7">42,61</EstimatedPrice>
      </ZoneDetail>
    </EstimatedPriceInformation>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<EstimatedPrice Hour ="8">46,49</EstimatedPrice>
<EstimatedPrice Hour ="9">54,24</EstimatedPrice>
<EstimatedPrice Hour ="10">61,98</EstimatedPrice>
<EstimatedPrice Hour ="11">56,56</EstimatedPrice>
<EstimatedPrice Hour ="12">50,36</EstimatedPrice>
<EstimatedPrice Hour ="13">46,49</EstimatedPrice>
<EstimatedPrice Hour ="14">50,36</EstimatedPrice>
<EstimatedPrice Hour ="15">54,24</EstimatedPrice>
<EstimatedPrice Hour ="16">58,11</EstimatedPrice>
<EstimatedPrice Hour ="17">61,98</EstimatedPrice>
<EstimatedPrice Hour ="18">69,73</EstimatedPrice>
<EstimatedPrice Hour ="19">77,48</EstimatedPrice>
<EstimatedPrice Hour ="20">61,98</EstimatedPrice>
<EstimatedPrice Hour ="21">46,49</EstimatedPrice>
<EstimatedPrice Hour ="22">38,74</EstimatedPrice>
<EstimatedPrice Hour ="23">30,99</EstimatedPrice>
<EstimatedPrice Hour ="24">23,24</EstimatedPrice>
</ZoneDetail>
<ZoneDetail>
  <Zone>CNOR</Zone>
  <EstimatedPrice Hour ="1">23,71</EstimatedPrice>
  <EstimatedPrice Hour ="2">26,87</EstimatedPrice>
  <EstimatedPrice Hour ="3">30,03</EstimatedPrice>
  <EstimatedPrice Hour ="4">31,61</EstimatedPrice>
  <EstimatedPrice Hour ="5">35,56</EstimatedPrice>
  <EstimatedPrice Hour ="6">39,51</EstimatedPrice>
  <EstimatedPrice Hour ="7">43,47</EstimatedPrice>
  <EstimatedPrice Hour ="8">47,42</EstimatedPrice>
  <EstimatedPrice Hour ="9">55,32</EstimatedPrice>
  <EstimatedPrice Hour ="10">63,22</EstimatedPrice>
  <EstimatedPrice Hour ="11">57,69</EstimatedPrice>
  <EstimatedPrice Hour ="12">51,37</EstimatedPrice>
  <EstimatedPrice Hour ="13">47,42</EstimatedPrice>
  <EstimatedPrice Hour ="14">51,37</EstimatedPrice>
  <EstimatedPrice Hour ="15">55,32</EstimatedPrice>
  <EstimatedPrice Hour ="16">59,27</EstimatedPrice>
  <EstimatedPrice Hour ="17">63,22</EstimatedPrice>
  <EstimatedPrice Hour ="18">71,13</EstimatedPrice>
  <EstimatedPrice Hour ="19">79,03</EstimatedPrice>
  <EstimatedPrice Hour ="20">63,22</EstimatedPrice>
```

## APPENDIX A - Transaction Examples

```
<EstimatedPrice Hour ="21">47,42</EstimatedPrice>
<EstimatedPrice Hour ="22">39,51</EstimatedPrice>
<EstimatedPrice Hour ="23">31,61</EstimatedPrice>
<EstimatedPrice Hour ="24">23,71</EstimatedPrice>
</ZoneDetail>
<ZoneDetail>
  <Zone>CSUD</Zone>
  <EstimatedPrice Hour ="1">20,92</EstimatedPrice>
  <EstimatedPrice Hour ="2">23,71</EstimatedPrice>
  <EstimatedPrice Hour ="3">26,5</EstimatedPrice>
  <EstimatedPrice Hour ="4">27,89</EstimatedPrice>
  <EstimatedPrice Hour ="5">31,38</EstimatedPrice>
  <EstimatedPrice Hour ="6">34,87</EstimatedPrice>
  <EstimatedPrice Hour ="7">38,35</EstimatedPrice>
  <EstimatedPrice Hour ="8">41,84</EstimatedPrice>
  <EstimatedPrice Hour ="9">48,81</EstimatedPrice>
  <EstimatedPrice Hour ="10">55,79</EstimatedPrice>
  <EstimatedPrice Hour ="11">50,9</EstimatedPrice>
  <EstimatedPrice Hour ="12">45,33</EstimatedPrice>
  <EstimatedPrice Hour ="13">41,84</EstimatedPrice>
  <EstimatedPrice Hour ="14">45,33</EstimatedPrice>
  <EstimatedPrice Hour ="15">48,81</EstimatedPrice>
  <EstimatedPrice Hour ="16">52,3</EstimatedPrice>
  <EstimatedPrice Hour ="17">55,79</EstimatedPrice>
  <EstimatedPrice Hour ="18">62,76</EstimatedPrice>
  <EstimatedPrice Hour ="19">69,73</EstimatedPrice>
  <EstimatedPrice Hour ="20">55,79</EstimatedPrice>
  <EstimatedPrice Hour ="21">41,84</EstimatedPrice>
  <EstimatedPrice Hour ="22">34,87</EstimatedPrice>
  <EstimatedPrice Hour ="23">27,89</EstimatedPrice>
  <EstimatedPrice Hour ="24">20,92</EstimatedPrice>
</ZoneDetail>
<ZoneDetail>
  <Zone>SUD</Zone>
  <EstimatedPrice Hour ="1">19,99</EstimatedPrice>
  <EstimatedPrice Hour ="2">22,65</EstimatedPrice>
  <EstimatedPrice Hour ="3">25,32</EstimatedPrice>
  <EstimatedPrice Hour ="4">26,65</EstimatedPrice>
  <EstimatedPrice Hour ="5">29,98</EstimatedPrice>
  <EstimatedPrice Hour ="6">33,32</EstimatedPrice>
```

## APPENDIX A - Transaction Examples

```
<EstimatedPrice Hour ="7">36,65</EstimatedPrice>
<EstimatedPrice Hour ="8">39,98</EstimatedPrice>
<EstimatedPrice Hour ="9">46,64</EstimatedPrice>
<EstimatedPrice Hour ="10">53,31</EstimatedPrice>
<EstimatedPrice Hour ="11">48,64</EstimatedPrice>
<EstimatedPrice Hour ="12">43,31</EstimatedPrice>
<EstimatedPrice Hour ="13">39,98</EstimatedPrice>
<EstimatedPrice Hour ="14">43,31</EstimatedPrice>
<EstimatedPrice Hour ="15">46,64</EstimatedPrice>
<EstimatedPrice Hour ="16">49,97</EstimatedPrice>
<EstimatedPrice Hour ="17">53,31</EstimatedPrice>
<EstimatedPrice Hour ="18">59,97</EstimatedPrice>
<EstimatedPrice Hour ="19">66,63</EstimatedPrice>
<EstimatedPrice Hour ="20">53,31</EstimatedPrice>
<EstimatedPrice Hour ="21">39,98</EstimatedPrice>
<EstimatedPrice Hour ="22">33,32</EstimatedPrice>
<EstimatedPrice Hour ="23">26,65</EstimatedPrice>
<EstimatedPrice Hour ="24">19,99</EstimatedPrice>
</ZoneDetail>
<ZoneDetail>
  <Zone>SICI</Zone>
  <EstimatedPrice Hour ="1">23,31</EstimatedPrice>
  <EstimatedPrice Hour ="2">26,42</EstimatedPrice>
  <EstimatedPrice Hour ="3">29,53</EstimatedPrice>
  <EstimatedPrice Hour ="4">31,08</EstimatedPrice>
  <EstimatedPrice Hour ="5">34,97</EstimatedPrice>
  <EstimatedPrice Hour ="6">38,86</EstimatedPrice>
  <EstimatedPrice Hour ="7">42,74</EstimatedPrice>
  <EstimatedPrice Hour ="8">46,63</EstimatedPrice>
  <EstimatedPrice Hour ="9">54,4</EstimatedPrice>
  <EstimatedPrice Hour ="10">62,17</EstimatedPrice>
  <EstimatedPrice Hour ="11">56,73</EstimatedPrice>
  <EstimatedPrice Hour ="12">50,51</EstimatedPrice>
  <EstimatedPrice Hour ="13">46,63</EstimatedPrice>
  <EstimatedPrice Hour ="14">50,51</EstimatedPrice>
  <EstimatedPrice Hour ="15">54,4</EstimatedPrice>
  <EstimatedPrice Hour ="16">58,28</EstimatedPrice>
  <EstimatedPrice Hour ="17">62,17</EstimatedPrice>
  <EstimatedPrice Hour ="18">69,94</EstimatedPrice>
  <EstimatedPrice Hour ="19">77,71</EstimatedPrice>
```

## APPENDIX A - Transaction Examples

```
<EstimatedPrice Hour ="20">62,17</EstimatedPrice>  
<EstimatedPrice Hour ="21">46,63</EstimatedPrice>  
<EstimatedPrice Hour ="22">38,86</EstimatedPrice>  
<EstimatedPrice Hour ="23">31,08</EstimatedPrice>  
<EstimatedPrice Hour ="24">23,31</EstimatedPrice>  
</ZoneDetail>
```

- 
- [etc.]
- 

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



## APPENDIX A - Transaction Examples

### ***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="1900000000000000"/>
      <maxInclusive value="2100000000000000"/>
    </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>
</schema>
```

## 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:creationTimeMilliseecsType" 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 = "Hour" type = "pd:hourIntervalType" use="required"/>
                  </extension>
                </simpleContent>
              </complexType>
            </element>
          </sequence>
        </complexType>
      </element>
    </sequence>
  </complexType>
</element>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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 Hour ="1">
            <BuyPrice>500,000000</BuyPrice>
            <SellPrice>500,000000</SellPrice>
            <Generation>6.966,4</Generation>
            <Consumption>6.966,4</Consumption>
          </Interval>
        </ZoneDetail>
      </MarketDetail>
    </MarketResult>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<Interval Hour ="2">
  <BuyPrice>500,000000</BuyPrice>
  <SellPrice>500,000000</SellPrice>
  <Generation>6.952,1</Generation>
  <Consumption>6.952,1</Consumption>
</Interval>
<Interval Hour ="3">
  <BuyPrice>500,000000</BuyPrice>
  <SellPrice>500,000000</SellPrice>
  <Generation>6.953,1</Generation>
  <Consumption>6.953,1</Consumption>
</Interval>
<Interval Hour ="4">
  <BuyPrice>500,000000</BuyPrice>
  <SellPrice>500,000000</SellPrice>
  <Generation>6.945,1</Generation>
  <Consumption>6.945,1</Consumption>
</Interval>
<Interval Hour ="5">
  <BuyPrice>500,000000</BuyPrice>
  <SellPrice>500,000000</SellPrice>
  <Generation>6.948,1</Generation>
  <Consumption>6.948,1</Consumption>
</Interval>
<Interval Hour ="6">
  <BuyPrice>500,000000</BuyPrice>
  <SellPrice>500,000000</SellPrice>
  <Generation>6.969,1</Generation>
  <Consumption>6.969,1</Consumption>
</Interval>
```

- 
- [etc.]
- 

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

## APPENDIX A - Transaction Examples

```
        <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>
```

## APPENDIX A - Transaction Examples

### ***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>
```



## APPENDIX A - Transaction Examples

```
        <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="Hour" type="pd:hourIntervalType" use="optional"/>
                                            <attribute name="Period" type="pd:periodIntervalType" use="optional"/>
                                        </complexType>
                                    </element>
                                </sequence>
                            </complexType>
                        </element>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </complexType>
</element>
```

# APPENDIX A - Transaction Examples

```
use="optional"/>
<attribute name = "TimeResolution" type = "pd:timeResolutionType"
</complexType>
</element>
</sequence>
</complexType>
</element>
</sequence>
</complexType>
</element>
</sequence>
</complexType>
</element>
</schema>
```

## APPENDIX A - Transaction Examples

### ***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>
          </RSResult>
        </ZoneDetail>
      </MarketDetail>
    </MarketResultMB>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
        <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>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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>
</schema>
```

## APPENDIX A - Transaction Examples

```
        </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>
```

## APPENDIX A - Transaction Examples

```
        <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>
```



## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

### ***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"/>
```

## APPENDIX A - Transaction Examples

- 
- [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>
```

## APPENDIX A - Transaction Examples

### ***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>
</schema>
```

## APPENDIX A - Transaction Examples

```
</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:pipTransactionType" use="optional"/>
    <attribute name="MarketParticipantNumber" type="pd:lengthThirtyFiveType" use="optional"/>
  </complexType>
</element>
</schema>
```

## APPENDIX A - Transaction Examples

### **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>
      </HeaderFattura>
    </Fattura>
  </PIPTransaction>
</PIPEDocument>
```

## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

```
</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>
<ElencoLinee>
  <Linea>
    <UNIT_TYPE>CONS</UNIT_TYPE>
    <UNIT_CODE>IdAuBelluno</UNIT_CODE>
    <MARKET>MGP</MARKET>
    <SUPPLY_CODE>40140002898948</SUPPLY_CODE>
    <TAX_CODE>V1</TAX_CODE>
```



## APPENDIX A - Transaction Examples

```
<FLOW_DATE>20040120</FLOW_DATE>
<PERIOD>1</PERIOD>
<TIME_RESOLUTION>PT60</TIME_RESOLUTION>
<UNIT_OF_MEASURE>MW</UNIT_OF_MEASURE>
<QUANTITY>142,824</QUANTITY>
<UNIT_SELLING_PRICE>67</UNIT_SELLING_PRICE>
<LINE_AMOUNT>9.569,21</LINE_AMOUNT>
</Linea>
<Linea>
  <UNIT_TYPE>CONS</UNIT_TYPE>
  <UNIT_CODE>IdAuFoggia</UNIT_CODE>
  <MARKET>MGP</MARKET>
  <SUPPLY_CODE>40140002898828</SUPPLY_CODE>
  <TAX_CODE>V1</TAX_CODE>
  <FLOW_DATE>20040120</FLOW_DATE>
  <PERIOD>1</PERIOD>
  <TIME_RESOLUTION>PT60</TIME_RESOLUTION>
  <UNIT_OF_MEASURE>MW</UNIT_OF_MEASURE>
  <QUANTITY>350,357</QUANTITY>
  <UNIT_SELLING_PRICE>67</UNIT_SELLING_PRICE>
  <LINE_AMOUNT>23.473,92</LINE_AMOUNT>
</Linea>
```

- 
- [etc.]
- 

```
<Linea>
  <UNIT_TYPE>CONS</UNIT_TYPE>
  <UNIT_CODE>IdAuCatania</UNIT_CODE>
  <MARKET>MI1</MARKET>
  <SUPPLY_CODE>40140002909032</SUPPLY_CODE>
  <TAX_CODE>V1</TAX_CODE>
  <FLOW_DATE>20040120</FLOW_DATE>
  <PERIOD>24</PERIOD>
  <TIME_RESOLUTION>PT60</TIME_RESOLUTION>
  <UNIT_OF_MEASURE>MW</UNIT_OF_MEASURE>
  <QUANTITY>199,898</QUANTITY>
  <UNIT_SELLING_PRICE>45</UNIT_SELLING_PRICE>
```

## APPENDIX A - Transaction Examples

```
                <LINE_AMOUNT>8.995,41</LINE_AMOUNT>
            </Linea>
        </ElencoLinee>
    </Fattura>
</PIPTransaction></PIPEDocument>
```

## APPENDIX A - Transaction Examples

### ***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>
```

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

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

## APPENDIX A - Transaction Examples

```
<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>
<element name="ElencoLinee">
  <complexType>
    <sequence>
      <element name="Linea" minOccurs="0" maxOccurs="unbounded">
        <complexType>
          <sequence>
            <element name="UNIT_TYPE" type="string"/>
            <element name="UNIT_CODE" type="string"/>
            <element name="MARKET" type="string"/>
            <element name="SUPPLY_CODE" type="string"/>
            <element name="TAX_CODE" type="string"/>
            <element name="FLOW_DATE" type="string"/>
            <element name="PERIOD" type="string"/>
            <element name="TIME_RESOLUTION" type="string"/>
            <element name="UNIT_OF_MEASURE" type="string"/>
            <element name="QUANTITY" type="string"/>
            <element name="UNIT_SELLING_PRICE" type="string"/>
            <element name="LINE_AMOUNT" type="string"/>
          </sequence>
        </complexType>
      </element>
    </sequence>
  </complexType>
</element>
```

## APPENDIX A - Transaction Examples

</schema>

## APPENDIX A - Transaction Examples

### ***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>

```



## APPENDIX A - Transaction Examples

```
</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="quarterPeriodIntervalType">
  <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">
```

## APPENDIX A - Transaction Examples

```
<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>
```

## APPENDIX A - Transaction Examples

```
</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>
```

## APPENDIX A - Transaction Examples

```
    </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"/>
```

## APPENDIX A - Transaction Examples

```
        <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 = "XB00"/>
        <enumeration value = "XB01"/>
        <enumeration value = "XB02"/>
        <enumeration value = "XB03"/>
    </restriction>
</simpleType>
```

## APPENDIX A - Transaction Examples

```
<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"/>
<enumeration value = "XB17"/>
<enumeration value = "XB18"/>
<enumeration value = "XB19"/>
<enumeration value = "XB20"/>
<enumeration value = "XB21"/>
<enumeration value = "XB22"/>
<enumeration value = "XB23"/>
<enumeration value = "XB24"/>
<enumeration value = "XB25"/>
<enumeration value = "XB26"/>
<enumeration value = "XB27"/>
<enumeration value = "XB28"/>
<enumeration value = "XB29"/>
<enumeration value = "XB30"/>
<enumeration value = "XB31"/>
<enumeration value = "XB32"/>
<enumeration value = "XB33"/>
<enumeration value = "XB34"/>
<enumeration value = "XB35"/>
<enumeration value = "XB36"/>
<enumeration value = "XB37"/>
<enumeration value = "XB38"/>
<enumeration value = "XB39"/>
<enumeration value = "XB40"/>
<enumeration value = "XB41"/>
<enumeration value = "XB42"/>
<enumeration value = "XB43"/>
<enumeration value = "XB44"/>
<enumeration value = "XB45"/>
<enumeration value = "XB46"/>
<enumeration value = "XB47"/>
<enumeration value = "XB48"/>
<enumeration value = "XB49"/>
<enumeration value = "XB50"/>
```

## APPENDIX A - Transaction Examples

<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"/>  
<enumeration value = "XB61"/>  
<enumeration value = "XB62"/>  
<enumeration value = "XB63"/>  
<enumeration value = "XB64"/>  
<enumeration value = "XB65"/>  
<enumeration value = "XB66"/>  
<enumeration value = "XB67"/>  
<enumeration value = "XB68"/>  
<enumeration value = "XB69"/>  
<enumeration value = "XB70"/>  
<enumeration value = "XB71"/>  
<enumeration value = "XB72"/>  
<enumeration value = "XB73"/>  
<enumeration value = "XB74"/>  
<enumeration value = "XB75"/>  
<enumeration value = "XB76"/>  
<enumeration value = "XB77"/>  
<enumeration value = "XB78"/>  
<enumeration value = "XB79"/>  
<enumeration value = "XB80"/>  
<enumeration value = "XB81"/>  
<enumeration value = "XB82"/>  
<enumeration value = "XB83"/>  
<enumeration value = "XB84"/>  
<enumeration value = "XB85"/>  
<enumeration value = "XB86"/>  
<enumeration value = "XB87"/>  
<enumeration value = "XB88"/>  
<enumeration value = "XB89"/>  
<enumeration value = "XB90"/>  
<enumeration value = "XB91"/>  
<enumeration value = "XB92"/>  
<enumeration value = "XB93"/>  
<enumeration value = "XB94"/>  
<enumeration value = "XB95"/>  
<enumeration value = "XB96"/>  
<enumeration value = "XB97"/>

## APPENDIX A - Transaction Examples

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

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

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

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

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



## APPENDIX A - Transaction Examples

```
<simpleType name="onOffType">
  <restriction base="string">
    <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">
    <enumeration value="ApplicationAdvice"/>
    <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>
```

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

<simpleType name="statusAcceptType">
  <restriction base="string">
    <enumeration value="Accept"/>
  </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">
  <restriction base="integer">
    <pattern value="\d{4}"/>
  </restriction>
</simpleType>
<simpleType name="trueFalseType">
  <restriction base="string">
    <enumeration value="True"/>
    <enumeration value="False"/>
  </restriction>
</simpleType>
```

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```
</simpleType>
```

```
<simpleType name="unitScheduleType">  
<restriction base="string">  
  <enumeration value="PreliminaryProvisional"/>  
  <enumeration value="Preliminary"/>  
  <enumeration value="FirstFinal"/>  
  <enumeration value="FirstUpdated"/>  
  <enumeration value="FinalXbid"/>  
</restriction>  
</simpleType>
```

```
<simpleType name="generalizedConstraintsDetailName">  
<restriction base="string">  
  <enumeration value="GC_COUP"/>  
</restriction>  
</simpleType>
```

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

```
<simpleType name="bidTaxCodeType">  
<restriction base="string">  
  <enumeration value="V1"/>  
  <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>
```

```
<simpleType name="offerTaxCodeType">  
<restriction base="string">  
  <enumeration value="A1"/>  
</restriction>  
</simpleType>
```

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```
<enumeration value="A2"/>
<enumeration value="A3"/>
<enumeration value="A4"/>
<enumeration value="A5"/>
<enumeration value="A6"/>
<enumeration value="A7"/>
<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"/>
    <enumeration value="MWh"/>
  </restriction>
</simpleType>

<simpleType name="unitOfMeasureMWhType">
  <restriction base="string">
    <enumeration value="MW"/>
    <enumeration value="MWh"/>
  </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>
```

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```
<simpleType name="zoneNameType">
  <restriction base="string">
    <enumeration value="CNOR"/>
    <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"/>
  </restriction>
</simpleType>
<simpleType name="mustRunType">
  <restriction base="string">
    <enumeration value = "MustRun"/>
    <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">
  <restriction base="string">
    <enumeration value="RS"/>
    <enumeration value="AS"/>
    <enumeration value="GR1"/>
    <enumeration value="GR2"/>
  </restriction>
</simpleType>
```

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```
        <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>
<simpleType name="bAType">
    <restriction base="string">
        <enumeration value="Rev"/>
        <enumeration value="Norev"/>
        <enumeration value="Netting"/>
    </restriction>
</simpleType>
<simpleType name="scopeTypeRR">
    <restriction base="string">
        <enumeration value="GR1"/>
        <enumeration value="GR2"/>
        <enumeration value="GR3"/>
    </restriction>
</simpleType>
</schema>
```