

Information Exchange Guidelines

Versions

	Date	Description
Version 1	10 July 2020	Initial version
Version 2		
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1. Introduction

1.1. Purpose of this document

This document contains information exchange guidelines for automated data exchange with Common Zone IT-Platform (platform.conexus.lv) via secure AS4 connection. In this document you will find useful information for establishing secure AS4 connection and ensuring Edig@s based eXtensible Markup Language (XML) message exchange between network user and common market area gas transmission operators Elering JSC and Conexus Baltic Grid JSC.

Please note that information provided in this document shall be used only as complementary to Edig@s protocol and does not change or amend any requirements as set by Edig@s standard if not explicitly stated otherwise. Contents of this document can be changed at any time without any prior notice.

In case a customized message is used for execution of specific business process, this message is marked as CUSTOMISED DOCUMENT in section 3.

1.2. Common Zone IT-Platform (platform.conexus.lv)

Common Zone IT-Platform (platform.conexus.lv) is a data exchange environment for gas market network users covering the following processes:

- Booking and confirmation of common zone entry and exit capacities;
- Submission and confirmation of nominations and renominations;
- Information about allocations and network user's portfolio balance position.

Access to Common Zone IT-Platform (platform.conexus.lv) is available to all network users who have a valid balance agreement with one of the common balancing zone system operators (Elering AS or JSC „Conexus Baltic Grid“).

Link for accessing platform production environment: <https://platform.conexus.lv/>

Link for accessing platform test environment: <https://bcgp-test.conexus.lv/>

1.3. Exchange of information

According to the provisions of transmission network code (TNC), electronic exchange of information related to execution of transmission services is based on Edig@s, which is described in detail in Edig@s Message Implementation Guideline (MIG) documents.

Edig@s Message Implementation Guidelines (including XSD schemas) are published on www.edigas.org and this should be used as the primary source for detailed guidance regarding Edig@s message specific details and document exchange implementation.

Please pay attention, that harmonized identification and versioning of the messages shall be applied as Edig@s message is determined uniquely by the attributes identification and version. Initial document shall have unique message identification and value “1” as a document version. Every change or update of nomination (renomination) or provisional/final allocation for any gas day shall have the same identification as the initial document, but incremented version number. Only the document with the same identification and version number greater than the version number of any previously received document will be processed.

EIC codes are used to identify the issuer and receiver of Edig@s message and to identify the connection point.

For the additional information, please see further pages. In case of questions regarding implementation or this document, please send an email to address: platform@conexus.lv.

2. AS4 connection

For the purpose of network user business process automation, it is possible to establish secure communication with Common Zone IT-Platform (platform.conexus.lv) via AS4 connection using the official ENTSOG profile.

ENTSOG profile used for communication:

General information:	https://www.entsog.eu/interoperability-and-data-exchange-nc#as4-documents-for-implementation
Profile description:	https://www.entsog.eu/sites/default/files/2019-05/INT0488-161115%20AS4%20Usage%20Profile_Rev_3.6_clean_final.pdf

AS4 technical details:

AS4 standard communication technical details:	http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/os/AS4-profile-v1.0-os.html
Conformant AS4 solutions for external service provision:	https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eDelivery+AS4+conformant+solutions

To configure and establish direct AS4 connection, the following information has to be submitted to the connecting TSO via email:

Table 1. Network user AS4 endpoint details

Parameter	Value	Description
URL	ENTER HERE	URL of the network user's AS4 endpoint.
Sender id	ENTER HERE	EIC code of the network user.
IP and port of the sending system	ENTER HERE	Public IP address of the network user's sending system and ports used in the communication.

Also attached to the form:

- Public part of signing/encryption certificate for the communication (*.cer file should be an X.509 certificate in base64 format);
- Server certificate of the AS4 endpoint (for https connection).

Configuration details for setting up AS4 connection to Common Zone IT Platform TEST and PRODUCTION environments are not part of this document and will be exchanged separately between operator and network user.

3. Messages

Following messages are used for data exchange and communication between the systems:

No.	Document type
1	Account position (94G) - EDIG@S document type MARSIT
2	Acknowledgement (294) - EDIG@S document type ACKNOW
3	Auction bid (ALN) - EDIG@S document type AUCBID
4	Auction results (ANB) - EDIG@S document type AUCRES
5	Bid Activation document (ALP) - EDIG@S document type BIDACT
6	Bid document (ALO) - EDIG@S document type BIDDOC
7	Booking confirmation (XBC) - CUSTOMISED DOCUMENT
8	Booking request (XBR) - CUSTOMISED DOCUMENT
9	Definitive allocation (96G) - EDIG@S document type MARSIT
10	Imbalance notification (14G) - EDIG@S document type MARSIT
11	Market situation (ANO) - EDIG@S document type MARSIT
12	Nomination (01G) - EDIG@S document type NOMINT
13	Nomination response interruption (AND) - EDIG@S document type NOMRES
14	Nomination response notification (08G) - EDIG@S document type NOMRES
15	Non daily metered forecast (ANW) - EDIG@S document type MARSIT
16	Offered capacity (AMV) - EDIG@S document type OFFCAP
17	Operational balancing account position (AOG) - EDIG@S document type MARSIT
18	Provisional allocation (95G) - EDIG@S document type MARSIT
19	Reconciliation notification (16G) - EDIG@S document type MARSIT
20	Storage situation notice (XSS) - CUSTOMISED DOCUMENT
21	Surrender capacity (ANP) - EDIG@S document type SURCAP
22	Transfer advice (AMN) - EDIG@S document type TRAADV
23	Transfer confirmation (XTC) - CUSTOMISED DOCUMENT
24	Transfer request (XTR) - CUSTOMISED DOCUMENT

3.1. Capacity

3.1.1. Capacity booking

Following documents are used under capacity booking process:

Document type	Details
Auction bid (ALN)	EDIG@S document AUCBID
Auction results (ANB)	EDIG@S document AUCRES

AUCBID - Document is used for capacity booking request for specific capacity product.

Element	Description
AuctionBid_Document	Root element with namespace: xmlns="urn:easee-gas.eu:edigas:capacitytrading:auctionbiddocument:5:1:5".
identification	Unique ID of the capacity booking request.
version	Version of the file created. Every following same capacity booking for the same contractReference shall have version number increased.
type	Type of the file created. Default: "ALN".
creationDateTime	Timestamp of the file creation.

Element	Description
validityPeriod	Validity period of the capacity product booked. Important to follow the Gas day periods. Shall cover all days where capacity product is available.
issuer_MarketParticipant.identification	Participant EIC code.
issuer_MarketParticipant.marketRole.code	Participant role code. Default: "ZSH".
recipient_MarketParticipant.identification	EIC code of platform production environment. Default: "61V-IT-PLATFORM8".
recipient_MarketParticipant.marketRole.code	TSO role code. Default: "ZSO".
contractReference	Used as TSO reference of specific capacity product. Field must follow the coding by following principle: "POINTEIC_DIRECTION_PERIODTYPE_AVAILABILITY_BUNDLINGTYPE". Example (Kiemenaï exit quarterly firm unbundled capacity): "21Z000000000153U Z03 ZEK Z06 ZEP".
contractType	Description of contract used. Default: "ZSD".
bidder_Reference.identification	Bidder identification. Free text field if used over AS4.
quantity_MeasureUnit.code	Description of the unit used in the quantity amount. Default: "KW2" (Kilowatt-hour per day (kWh/d)).
bid Quantity.amount	Numerical value of total quantity requested.
min Quantity.amount	Numerical value of min. quantity requested.
status.code	Description of status. Default: "62G".

Additional limitations for the message exchange:

- Capacity booking will first verify if capacity booking product requested is active in the system. Capacity booking request will be processed only if offered capacity products with the respective period and contract reference exist and are available for booking.
- Each document will contain specific capacity booking product. |Different products have to be booked with separate documents.

AUCRES - Document is used for capacity booking request for specific capacity product.

Element	Description
AuctionResults_Document	Root element with namespace: xmlns="urn:easee-gas.eu:edigas:capacitytrading:auctionbiddocument:5:1:5".
identification	Unique ID of the capacity booking request.
version	Version of the file created. Every following same capacity booking shall have version number increased.
type	Type of the file created. Default: "ANB".
creationDateTime	Timestamp of the file creation.
validityPeriod	Validity period of the capacity product booked.
issuer_MarketParticipant.identification	TSO EIC code.
issuer_MarketParticipant.marketRole.code	Auction organiser role code. Default: "ZUJ".
recipient_MarketParticipant.identification	Participant EIC code.
recipient_MarketParticipant.marketRole.code	TSO role code. Default: "ZSH".
contractReference	TSO reference of specific capacity product. Important to follow the coding: "EIC_DIRECTION_TYPE_AVAILABILITY_TYPE", Sample: "21Z00000000153U Z03 ZEK Z06 ZEP".
contractType	Description of contract used. Default: "ZSD".
status.code	Description of status. Default: "64G".
capacityType.code	Description of capacity type. Default: "ZEP".
product_TimeSeries.SpanPeriod	Description of capacity length type. ZEJ = Yearly ZEK = Quarterly ZEL = Monthly ZEM = Daily ZEN = Within day
productTimeInterval_Period.timeInterval	Period of the capacity booking product.
connectionPoint.identification	EIC code of the product connection point.
quantity_MeasureUnit.code	Measure unit of the booked product.
price_MeasureUnit.code	Measure unit of the quantity unit price.
currency.code	Currency of the price.
totalCapacityOffered_Quantity.amount	Total capacity offered.
clearing_Price.amount	Clearing price. Not used. Default: "0".
ToTso_MarketParticipant	Parent element to describe the direction.
identification	External TSO of the connection point.
availability.type	Availability code. Z06-Firm, Z05-Interruptible.
price_MeasureUnit.code	Measure unit of the quantity unit price.
currency.code	Currency of the price.
auctionHeld_Period.timeInterval	Period information about the auction.

Element	Description
BiddingRound	Parent element to describe the bidding information.
Characteristic	Sequence of the bidding round. Default: "1".
sequence	
Bid	Parent element to describe the bid document.
Document	Bid document identification.
Identification	
Version	Bid document version.
bid	Bid document provided company EIC.
MarketParticipant.identification	
bidder	Bid document provider.
Reference.identification	
bid	Bided quantity amount.
Quantity.amount	
min	Min bided quantity amount.
Quantity.amount	
allocated	Allocated quantity amount.
Quantity.amount	
status	Status of the bid. Default: "64G".
code	

3.1.2. Capacity trading

Element	Description
TransferAdvice_Document	Root element with namespace: xmlns="urn:easee-gas.eu:edigas:capacitytrading:transferadvisedocument:5:1:5".
Identification	Unique ID of the capacity booking request.
Version	Version of the file created. Every following document should have version number increased.
Type	Type of the file created. Default: "AMN".
creationDateTime	Timestamp of the file creation.
validityPeriod	Validity period of the capacity product booked. Important to follow the Gas day periods.
issuer	TSO EIC code.
MarketParticipant.identification	
issuer	Auction organiser role code. Default: "ZTU".
MarketParticipant.marketRole.code	
recipient	Participant EIC code.
MarketParticipant.identification	
recipient	TSO role code. Default: "ZSO".
MarketParticipant.marketRole.code	
dealOriginator	EIC code of the provider.
MarketParticipant.identification	
dealid	Deal ID provided by trading participant.
Agreement.identification	
tradeNature	Type of trade. Default: "A18".
Reference.type	
connectionPoint	EIC code of the connection point capacity traded.
identification	
quantity	Measurement of the unit of capacity.
MeasureUnit.code	
trading	Description of trading type. Default: "A03".
Procedure.code	
transferType	Transfer type. Default: "A02".
type	
Account	Parent element describing the account information.
Identification	Account of the data provider.
Period	Parent element describing the period of trading.

Element	Description
timeInterval	Period of the traded capacity period.
direction.code	Direction code describing the direction of the capacity trades.Z02- Entry, Z03-Exit.
quantity.amount	Amount of capacity traded.
quantity.type	Type of capacity traded. Default: "ZXO".
capacityType.code	Type of capacity traded. Default: "ZEP".
availability.type	Availability code. Z06-Firm, Z05-Interruptible.

3.1.3. Capacity surrendering

Element	Description
SurrenderCapacity_Document	Root element with namespace: xmlns=" urn:easee-gas.eu:edigas:capacitytrading:surrendercapacitydocument:5:1:5".
Identification	Unique ID of the capacity booking request.
Version	Version of the file created. Every following same capacity booking should have version number increased.
Type	Type of the file created. Default: "ANP".
creationDateTime	Timestamp of the file creation.
validityPeriod	Validity period of the capacity product booked. Important to follow the Gas day periods.
issuer MarketParticipant.identification	Participant EIC code.
issuer_MarketParticipant.marketRole.code	Auction organiser role code. Default: "ZSH".
recipient MarketParticipant.identification	TSO EIC code.
recipient_MarketParticipant.marketRole.code	TSO role code. Default: "ZSO".
connectionPoint.identification	EIC code of the connection point were capacity surrendering is made.
connectionPoint.measureUnit.code	Measurement of the unit of capacity.
connectionPoint.fromTso_MarketParticipant.identification	Description of status. Default: "64G".
connectionPoint.period.timeInterval	External TSO of the connection point.
connectionPoint.period.surrendered_Quantity.amount	Surrendered quantity amount.

3.2. Nomination

Following documents are used under nomination process:

Document type	Details
Nomination (01G)	EDIG@S document NOMINT
Nomination response notification (08G)	EDIG@S document NOMRES

NOMINT - Document is used for Nominating specific quantity under specific connection point

Element	Description
NominationResponse_Document	Root element with namespace: xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1".
Identification	Unique ID of the nomination request. All further nominations or re-nominations for the same period shall have the same Identification.
Version	Version of the file created. Every following nominations or re-nominations should have version number increased.
Type	Type of the file created. Default: "ANB".
creationDateTime	Timestamp of the file creation.
validityPeriod	Validity period of the nomination. Shall follow the Gas day periods.
issuer_MarketParticipant.identification	Participant EIC code.
issuer_MarketParticipant.marketRole.code	Auction organiser role code. Default: "ZSH".
recipient_MarketParticipant.identification	TSO EIC code.
recipient_MarketParticipant.marketRole.code	TSO role code. Default: "ZSO".
ConnectionPoint	Parent element of connection point information.
identification	EIC code of the connection point where nomination is made.
measureUnit.code	Measure unit of the nomination made.
NominationType	Parent element describing the nomination type information.
type	Type of nomination made. Default: "A02".
Account	Parent element describing the account information.
internalAccount	Account EIC code of the nominating party.
externalAccount	Account EIC of the external nomination party.
Period	Parent element describing the period of nomination.
timeInterval	Time interval of nomination made.
direction.code	Direction of the nomination in reference to internal and external account.
quantity.amount	Quantity amount of the nomination.

Additional limitations for the message exchange:

- Each message contains only one Connection point but will contain all trades (account classes) in same document.

NOMRES - Document is used for confirming nominating specific quantity under specific connection point

Element	Description
NominationResponse_Document	Root element with namespace: xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationresponsedocument:5:1".
identification	Unique ID of the nomination response.
version	Version of the file created. Every following same nomination response shall have version number increased.
type	Type of the file created. Default: "ANB".
creationDateTime	Timestamp of the file creation.
validityPeriod	Validity period of the GAS DAY. Important to follow the Gas day periods.
issuer_MarketParticipant.identification	TSO EIC code.
issuer_MarketParticipant.marketRole.code	Auction organiser role code. Default: "ZSO".
recipient_MarketParticipant.identification	Participant EIC code.
recipient_MarketParticipant.marketRole.code	TSO role code. Default: "ZSH".
applicationContext	
nomination_Document.identification	Description of contract used. Default: "ZSD".
nomination_Document.version	Description of status. Default: "64G".
ConnectionPoint	Parent element of connection point information.
identification	EIC code of the connection point where nomination is made.
measureUnit.code	Measure unit of the nomination made.
NominationType	Parent element describing the nomination type information.
type	Type of nomination made. Default: "A02".
Account	Parent element describing the account information.
internalAccount	Account EIC code of the nominating party.
externalAccount	Account EIC of the external nomination party.
InformationOrigin TimeSeries	
type	
Period	Parent element describing the period of nomination.
timeInterval	Timeinterval of nomination made.
direction.code	Direction of the nomination in reference to internal and external account.
quantity.amount	Quantity amount of the nomination.
Status	Parent element containing information on the status of nomination.
code	Status of nomination. Default: "13G".
reason.text	Text to describe the status of nomination.

3.3. Settlement

Following documents are used under settlement process:

Document type	Details
Imbalance notification (14G)	EDIG@S document MARSIT
Provisional allocation (95G)	
Definitive allocation (96G)	
Non daily metered forecast (ANW)	

3.3.1. Imbalance

MARSIT - Document is used for updating network user imbalance situation.

Element	Description
MarketSituation_Document	Root element with namespace: xmlns="urn:easee-gas.eu:edigas:marketbalancing:marketsituationdocument:5:1:5".
Identification	Unique ID of the imbalance notification document.
version	Version of the document. Every following document for the same period will have incremented version number.
type	Type of the document. "14G" for imbalance notification.
creationDateTime	Timestamp of the document creation.
validityPeriod	Validity period of the document. Important to follow the Gas day periods.
issuer_MarketParticipant.identification	TSO EIC code.
issuer_MarketParticipant.marketRole.code	TSO role code. Default: "ZSO".
recipient_MarketParticipant.identification	Receiving market participant (network user) EIC code.
recipient_MarketParticipant.marketRole.code	Receiving market participant (network user) role code. Default: "ZSH".
Account	Parent element describing the account information.
identification	EIC code of the market participant (network user) for whom the imbalance is calculated.
type	Type of the account. Default: "ZOC" (internal account).
TimeSeries	Parent element describing the TimeSeries.
type	"ZXM" (imbalance).
measureUnit.code	Measure unit used for the value. Default: "KW2" (Kilowatt-hour per day (kWh/d)).
Period	Parent element describing the period.
timeInterval	Time interval for which the imbalance value is calculated.
accountDirection.Code	Direction code describing the direction of the imbalance. ZPD = Debit quantity. ZPE = Credit Quantity.
accountDirection.account_Quantity.amount	Amount of the imbalance.

3.3.2. Allocation

MARSIT - Document is used for updating network user allocation information.

Element	Description
MarketSituation_Document	Root element with namespace: xmlns="urn:easee-gas.eu:edigas:marketbalancing:marketsituationdocument:5:1:5".
Identification	Unique ID of the allocation document.
version	Version of the document. Every following document for the same connection point and period will have the incremented version number.
type	Type of the document. "95G" for provisional allocation. "96G" for definitive allocation.
creationDateTime	Timestamp of the document creation.
validityPeriod	Validity period of the document. Important to follow the Gas day periods.
issuer_MarketParticipant.identification	TSO EIC code.
issuer_MarketParticipant.marketRole.code	TSO role code. Default: "ZSO".
recipient_MarketParticipant.identification	Receiving market participant (network user) EIC code.
recipient_MarketParticipant.marketRole.code	Receiving market participant (network user) role code. Default: "ZSH".
ConnectionPoint	Parent element of connection point information.
identification	EIC code of the connection point where allocation is done.
Account	Parent element describing the account information.
identification	EIC code of the market participant (network user) for whom the allocation is done.
type	Type of the account. Default: "ZOC" (internal account).
externalAccount	Account EIC of the external allocation party.
TimeSeries	Parent element describing the TimeSeries.
type	"Z01" (allocated).
measureUnit.code	Measure unit used for the value. Default: "KW2" (Kilowatt-hour per day (kWh/d)).
Period	Parent element describing the period.
timeInterval	Time interval of the allocation value.
Quantity	Parent element describing the quantity.
direction.code	Direction of the allocation in reference to internal and external account. Z02- Entry, Z03-Exit.
amount	Quantity amount of the allocation.

3.3.3. Forecast

MARSIT - Document is used for updating non daily metered forecast information.

Element	Description
MarketSituation_Document	Root element with namespace: xmlns="urn:easee-gas.eu:edigas:marketbalancing:marketsituationdocument:5:1:5".
Identification	Unique ID of the non daily metered forecast document.
version	Version of the document. Every following document for the same period will have the incremented version number.
type	Type of the document. "ANW" for non daily metered forecast.
creationDateTime	Timestamp of the document creation.
validityPeriod	Validity period of the document. Important to follow the Gas day periods.
issuer_MarketParticipant.identification	TSO EIC code.
issuer_MarketParticipant.marketRole.code	TSO role code. Default: "ZSO".
recipient_MarketParticipant.identification	Receiving market participant (network user) EIC code.
recipient_MarketParticipant.marketRole.code	Receiving market participant (network user) role code. Default: "ZSH".
Account	Parent element describing the account information.
identification	EIC code of the market participant (network user) for whom the non daily metered forecast is done.
type	Type of the account. Default: "ZOE" (shipper account).
externalAccount	Account EIC of the external party.
TimeSeries	Parent element describing the TimeSeries.
type	"Z01" (allocated).
measureUnit.code	Measure unit used for the value. Default: "KW2" (Kilowatt-hour per day (kWh/d)).
Period	Parent element describing the period.
timeInterval	Time interval of the non daily metered forecast value.
accountDirection.Code	Code describing the direction of an account movement. ZPD = Debit quantity. ZPE = Credit Quantity.
accountDirection.account_Quantity.amount	Amount of the non daily metered forecast.