

# EMIT REFIT 2024

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*SOAP Service Description (V1.0.00)*

The EMIR REFIT project will replace the existing Trade Reporting SOAP web services. The procedures will be different from the current ones. The submitted report will undergo a basic form and content check. Received reports will be forwarded to Trade Repo. With the unique identifier of the package, we have the possibility to check the status of submission and receipt.

## Web service access - URL

The URL of the service and a description of the http security protocol used are included in a separate document. This includes the allowed ciphers, TLS version, and the key used (public or client).

## Basic requirements for SOAP service

Based on the provided WSDL, the following elements are to be filled in and checked. WSDL package: KELER\_ESB\_BusinessFunction\_Emir\_CustomerService.wsdl

## SOAP Version

The service only supports SOAP 1.1.

## WSS signature

A client certificate issued by Keler, according to the WSS standard, is required to sign the SOAP Body part. The signature must be placed in the SOAP Header according to SOAP WSS.

No expiry date is required.

[Web Services Security Code Specification \(oasis-open.org\)](http://www.oasis-open.org)

## WSS sample

```
<?xml version="1.0" encoding="UTF8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
<SOAP-ENV:Header>
<wss:Security xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:wss="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:xenc="http://www.w3.org/2001/04/xmenc#" SOAP-ENV:mustUnderstand="1">
<wss:BinarySecurityToken
  EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary"
  ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509"
wsu:Id="x509cert00">MIICDCCAe2gAwIBAgIBADANBgkqhkiG9w0BAQUFADAwMQswCQYDVQQGEwJHJEMMAoGA1UEChMD
SUJNMRRMwEQYDVQQDEWpXaWxsiFIhdGVzMB4XDTA2MDEzMTAwMDAwMFoXDTA3MDEzMTIzNTk1OVow
MDELMMAkGA1UEBhMCR0lxDDAKBgNVBAoTA0ICTTETMBEGA1UEAxMKV2lsbCBZYXRIczCBnzANBgkq
hkiG9w0BAQEFAAOBjQAwgYkCgYEArsRj/n+3RN75+jaxuOMBWShvZCB0egv8qu2UwLWEeiogePsR
6Ku4SuHbBwJtWNR0xBTAAAS9IEa70yhVdppxOnJBOCIERg750HUdP7a8JXPFzA+BqV63JqRgJyxN6
msfTAvEMR07LIXmZAt62nwcFrvCKNPFJ5mkaJ9v1p7jkCAwEAaOBrTCBqjA/BglghkgBhvhC
AQOEMhMwR2VuZXJhdGVkIGJ5IHRobzSBTZWN1cmloeSBTZXJ2ZXIgmZm9yIHovT1MgKFJBOQYpMDgG
ZQVRFU0BVSY5JQk0uQ09ggdJQk0uQ09NhgtXV1cuSUJNLkNPTYcECCRIBjAO
</wss:BinarySecurityToken>
<ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
<ds:SignedInfo xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:xenc="http://www.w3.org/2001/04/xmenc#">
<ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#">
<c14n:InclusiveNamespaces xmlns:c14n="http://www.w3.org/2001/10/xml-exc-c14n#" PrefixList="ds wsu xenc SOAP-ENV"/>
</ds:CanonicalizationMethod>
<ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
<ds:Reference URI="#TheBody">
<ds:Transforms>
<ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#">
<c14n:InclusiveNamespaces xmlns:c14n="http://www.w3.org/2001/10/xml-exc-c14n#" PrefixList="wsu SOAP-ENV"/>
</ds:Transform>
</ds:Transforms>
<ds:DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/> 2
<ds:DigestValue>QORZEA+gpaflluShspHxhrrjaFIXE=</ds:DigestValue> 3
</ds:Reference>
```

```

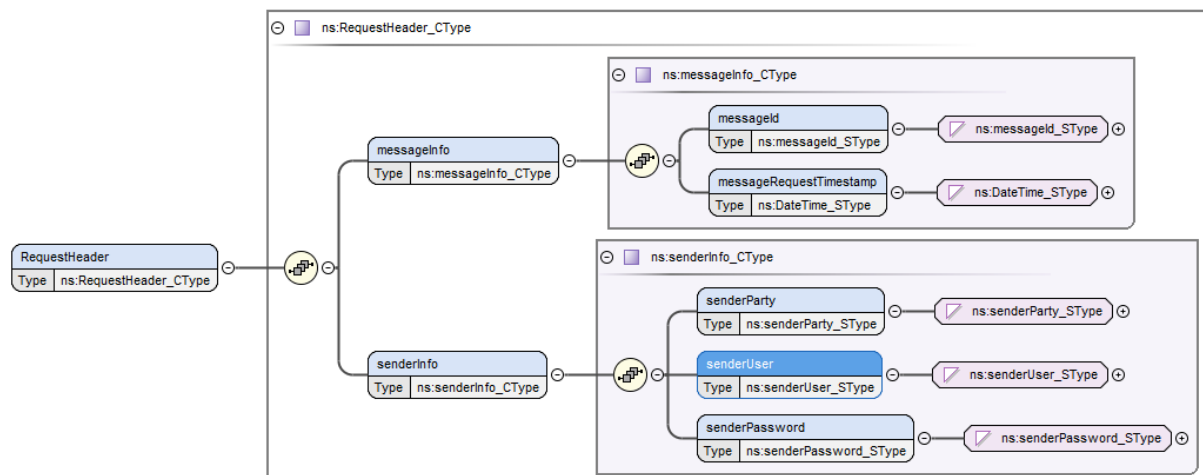
</ds:SignedInfo>
<ds:SignatureValue>drDH0XESiyN6YJm27mfK1ZMG4Q4lsZqQ9N9V6kEnw2lk7aM3if77XNFnyKS4deglbC3ga11kkaFJ 4
p4jLOmYRqqycDPqpM+UEu7mzfHRQGe7H0EnFqZpikNqZK5FF6fvYlv2JgTDPwrOSYXmhzwegUDT
ITVjOvuUgXYrFyaO3pw=</ds:SignatureValue>
<ds:KeyInfo>
<wsse:SecurityTokenReference>
<wsse:Reference URI="#x509cert00"
ValueURI="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509"/> 5
</wsse:SecurityTokenReference>
</ds:KeyInfo>
</ds:Signature>
</wsse:Security>
</SOAP-ENV:Header>
<SOAP-ENV:Body xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
wsu:Id="TheBody">
<getVersion xmlns="http://msgsec.wssecvt.ws.ibm.com"/>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

1. The binary security token contains the base64 binary encoding of the X.509 certificate. This encoding includes the public key that the intended recipient of the SOAP message uses to verify the signature.
2. The algorithm that is used during the hashing process to produce the message digest.
3. The value of the message digest.
4. The digest value is then encrypted with the user's private key and included here as the signature value.
5. References the binary security token that contains the public key that is used to verify the signature.

## SOAP Request Header

The SOAP Header contains the RequestHeader, which must be filled in.



### ./messageInfo/messageId

Unique identifier of the message. It identifies the communication package, not the business content. It must be created uniquely for each call. xsd string maxLength 256

### ./messageInfo/messageRequestTimestamp

Time of sending a message. Should be uploaded for better searchability. xsd dateTime

### ./senderInfo/senderParty

LEI code of the client, sending partner. xsd string maxLength 50

### ./senderInfo/senderUser

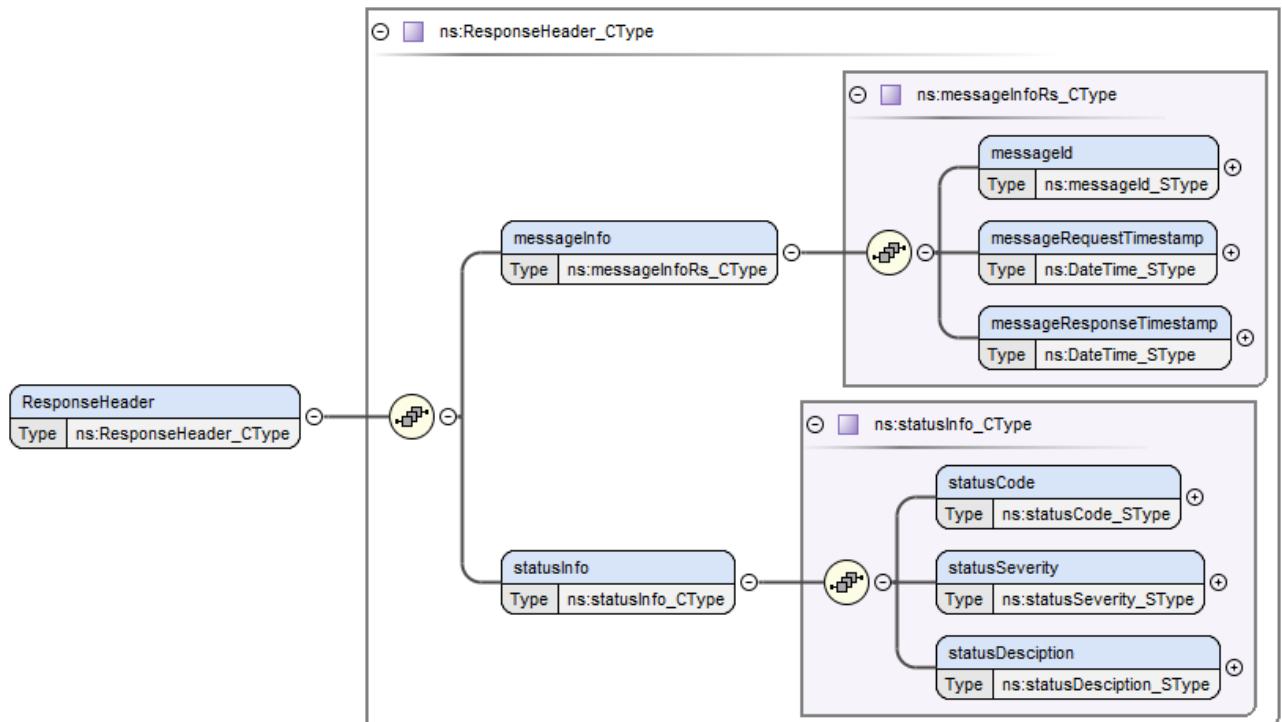
Registered KelerTR application user with permission to upload. xsd string maxLength 50

### ./senderInfo/senderPassword

Password of a registered KelerTR application user with base64 encoding.

## SOAP Response Header

The SOAP header content of the response message, which provides basic information about receipt.



### **./messageInfo**

#### **./messageId**

The messageId in the request. xsd string maxLength 256

#### **./messageRequestTimestamp**

The timestamp in the Request. xsd dateTime

#### **./messageResponseTimestamp**

Response message time. xsd dateTime

### **./statusInfo**

#### **./statusCode**

Response message communication status

0 - no error, all other values indicate an error

xsd string maxLength 16

#### **./statusSeverity**

Level. I - Information, W - Warning, E - Error

xsd string maxLength 1

#### **./statusDescription**

Error reason or processing status description

xsd string maxLength 256

## Soap Body

The SOAP Body operation part is done as defined in xsd. Filling in the help files contains only the technical fields. Look Services

# Services

## EmirDerivative

Receipt of client auth.030 report

### Request

*EmirDerivativeRq* sample

Generated sample

```
<?xml version="1.0" encoding="UTF-8"?>
<ns:EmirDerivativeRq xmlns:auth030="urn:iso:std:iso:20022:tech:xsd:auth.030.001.03"
xmlns:head001="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns:ns092="urn:iso:std:iso:20022:tech:xsd:auth.092.001.04"
xmlns:nssq="http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport/EmirStatusQuery"
xmlns:ns0="urn:iso:std:iso:20022:tech:xsd:head.003.001.03"
xmlns:nsde="http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport/EmirDerivative"
xmlns:headns="urn:iso:std:iso:20022:tech:xsd:head.003.001.01"
xmlns:nsmd="http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport/EmirMarginData"
xmlns:ibmSchExtn="http://www.ibm.com/schema/extensions"
xmlns:ns="http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport"
xmlns:auth108="urn:iso:std:iso:20022:tech:xsd:auth.108.001.01"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <nsde:BusinessPayload>
    <ns0:BizData>
      <ns0:Hdr>
        <head001:AppHdr>
          <head001:Fr>
            <head001:OrgId>
          </head001:OrgId>
        </head001:Fr>
        <head001:To>
          <head001:OrgId>
        </head001:OrgId>
        </head001:To>
        <head001: BizMsgIdr>BizMsgIdr0</head001: BizMsgIdr>
        <head001:MsgDefIdr>MsgDefIdr0</head001:MsgDefIdr>
        <head001:CreDt>2006-05-04T18:13:51.0</head001:CreDt>
      </head001:AppHdr>
    </ns0:Hdr>
    <ns0:Pyld>
      <auth030:Document>
        <auth030:DerivsTradRpt>
          <auth030:RptHdr>
            <auth030:NbRcrds>0</auth030:NbRcrds>
          </auth030:RptHdr>
          <auth030:TradData>
            <auth030:Rpt>
              <auth030:Rvv>
                <auth030:CtrPtySpfcData>
                  <auth030:CtrPty>
                    <auth030:RptgCtrPty>
                      <auth030:Id>
                        <auth030:Lgl>
                          <auth030:Id>
                            <auth030:LEI>00000000000000000000</auth030:LEI>
                          </auth030:Id>
                        </auth030:Lgl>
                      </auth030:Id>
                    <auth030:Ntr>
                      <auth030:Fl>
                        <auth030:Sctr>
                          <auth030:Cd>AIFD</auth030:Cd>
                        </auth030:Sctr>
                      <auth030:Sctr>
                        <auth030:Cd>AIFD</auth030:Cd>
                      </auth030:Sctr>
                    <auth030:ClrThrshld>false</auth030:ClrThrshld>
                  </auth030:Fl>
                </auth030:Rvv>
              </auth030:Rpt>
            </auth030:TradData>
          </auth030:DerivsTradRpt>
        </auth030:Document>
      </ns0:Pyld>
    </ns0:BizData>
  </nsde:BusinessPayload>
</ns:EmirDerivativeRq>
```

```
</auth030:Ntr>
<auth030:DrctnOrSd>
  <auth030:CtrPtySd>SLLR</auth030:CtrPtySd>
</auth030:DrctnOrSd>
</auth030:RptgCtrPty>
<auth030:OthrCtrPty>
  <auth030:IdTp>
    <auth030:Lgl>
      <auth030:Id>
        <auth030:LEI>00000000000000000000</auth030:LEI>
      </auth030:Id>
    </auth030:Lgl>
  </auth030:IdTp>
  <auth030:RptgOblgtn>>false</auth030:RptgOblgtn>
</auth030:OthrCtrPty>
<auth030:SubmitgAgt>
  <auth030:LEI>00000000000000000000</auth030:LEI>
</auth030:SubmitgAgt>
</auth030:CtrPty>
</auth030:CtrPtySpfcData>
<auth030:CmonTradData>
  <auth030:TxData>
    <auth030:TxId>
      <auth030:UnqTxldr>00000000000000000000</auth030:UnqTxldr>
    </auth030:TxId>
    <auth030:CollPrflCd>
      <auth030:Prtfl>
        <auth030:Cd>Cd2</auth030:Cd>
      </auth030:Prtfl>
    </auth030:CollPrflCd>
    <auth030:NtnlAmt>
      <auth030:FrstLeg>
        <auth030:Amt>
          <auth030:Amt Ccy="AAA">50.00000</auth030:Amt>
        </auth030:Amt>
      </auth030:FrstLeg>
    </auth030:NtnlAmt>
    <auth030:DlvryTp>PHYS</auth030:DlvryTp>
    <auth030:ExctnTmStmp>2006-05-04T18:13:51.0</auth030:ExctnTmStmp>
    <auth030:FctvDt>2006-05-04</auth030:FctvDt>
    <auth030:MstrAgrmt>
      <auth030:Tp>
        <auth030:Tp>BIAG</auth030:Tp>
      </auth030:Tp>
    </auth030:MstrAgrmt>
    <auth030:DerivEvt>
      <auth030:TmStmp>
        <auth030:Dt>2006-05-04</auth030:Dt>
      </auth030:TmStmp>
    </auth030:DerivEvt>
    <auth030:TradClr>
      <auth030:ClrSts>
        <auth030:Clrd>
          <auth030:Dtls>
            </auth030:Dtls>
          </auth030:Clrd>
        </auth030:ClrSts>
      </auth030:TradClr>
    </auth030:TxData>
  </auth030:CmonTradData>
  <auth030:Lvl>PSTN</auth030:Lvl>
</auth030:Rvv>
</auth030:Rpt>
<auth030:Rpt>
  <auth030:New>
    <auth030:CtrPtySpfcData>
      <auth030:CtrPty>
        <auth030:RptgCtrPty>
          <auth030:Id>
            <auth030:Lgl>
              <auth030:Id>
```

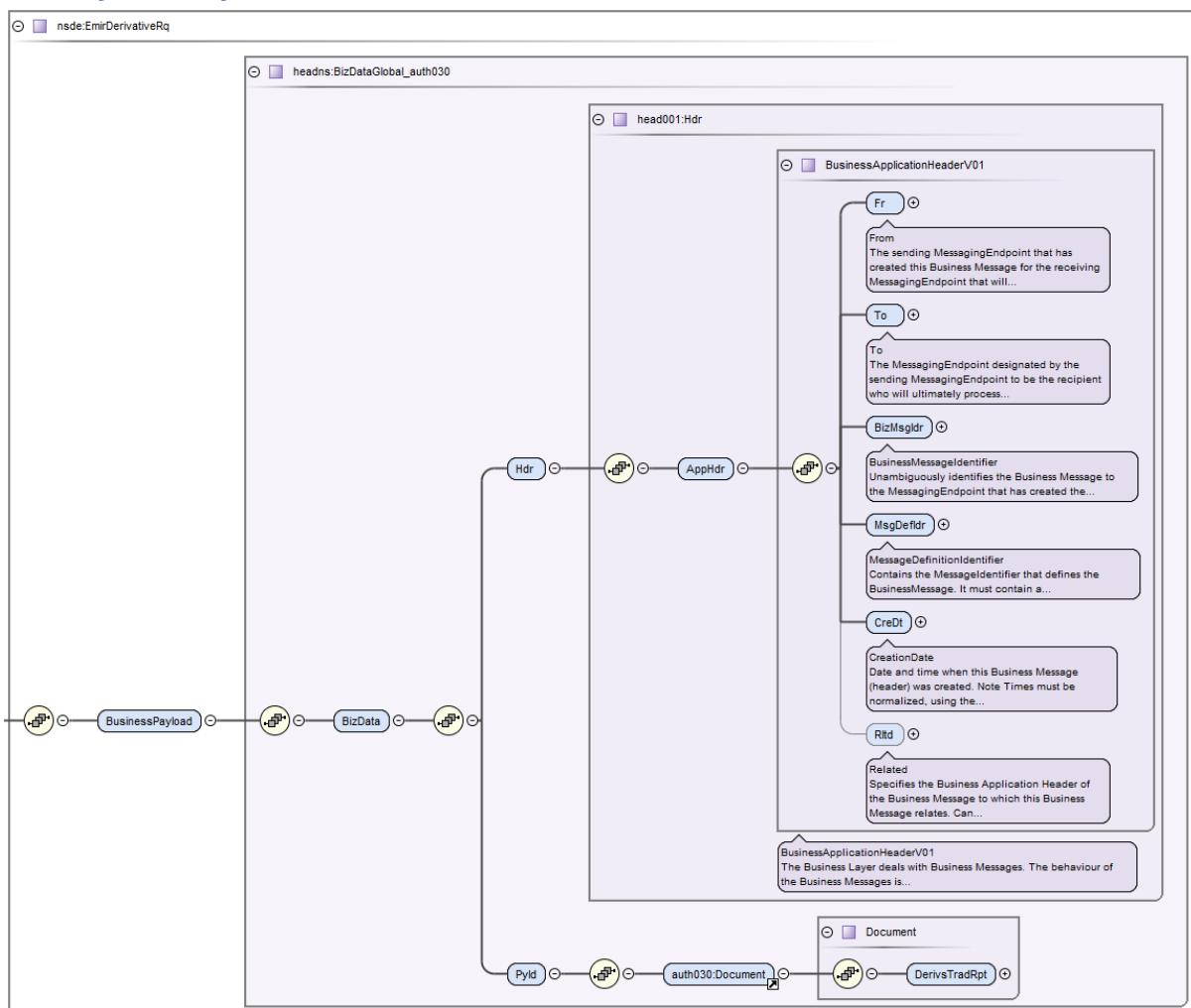
```
<auth030:LEI>00000000000000000000</auth030:LEI>
</auth030:Id>
</auth030:Lgl>
</auth030:Id>
<auth030:Ntr>
  <auth030:NFI>
    <auth030:Sctr>
      <auth030:Id>A</auth030:Id>
    </auth030:Sctr>
    <auth030:Sctr>
      <auth030:Id>A</auth030:Id>
    </auth030:Sctr>
    <auth030:ClrThrshld>false</auth030:ClrThrshld>
  </auth030:NFI>
</auth030:Ntr>
<auth030:DrctnOrSd>
  <auth030:Drctn>
    <auth030:DrctnOfTheFrstLeg>MAKE</auth030:DrctnOfTheFrstLeg>
    <auth030:DrctnOfTheScndLeg>MAKE</auth030:DrctnOfTheScndLeg>
  </auth030:Drctn>
</auth030:DrctnOrSd>
</auth030:RptgCtrPty>
<auth030:OthrCtrPty>
  <auth030:IdTp>
    <auth030:Lgl>
      <auth030:Id>
        <auth030:LEI>00000000000000000000</auth030:LEI>
      </auth030:Id>
    </auth030:Lgl>
  </auth030:IdTp>
  <auth030:RptgOblgtn>false</auth030:RptgOblgtn>
</auth030:OthrCtrPty>
<auth030:SubmitgAgt>
  <auth030:LEI>00000000000000000000</auth030:LEI>
</auth030:SubmitgAgt>
</auth030:CtrPty>
</auth030:CtrPtySpfcData>
<auth030:CmonTradData>
  <auth030:TxData>
    <auth030:TxId>
      <auth030:UnqTxldr>00000000000000000000</auth030:UnqTxldr>
    </auth030:TxId>
    <auth030:CollPrflCd>
      <auth030:Prfl>
        <auth030:NoPrfl>NOAP</auth030:NoPrfl>
      </auth030:Prfl>
    </auth030:CollPrflCd>
    <auth030:NtnlAmt>
      <auth030:FrstLeg>
        <auth030:Amt>
          <auth030:Amt Ccy="AAA">50.00000</auth030:Amt>
        </auth030:Amt>
      </auth030:FrstLeg>
    </auth030:NtnlAmt>
    <auth030:DlvryTp>PHYS</auth030:DlvryTp>
    <auth030:ExctnTmStmp>2006-05-04T18:13:51.0</auth030:ExctnTmStmp>
    <auth030:FctvDt>2006-05-04</auth030:FctvDt>
    <auth030:MstrAgrmt>
      <auth030:Tp>
        <auth030:Tp>BIAG</auth030:Tp>
      </auth030:Tp>
    </auth030:MstrAgrmt>
    <auth030:DerivEvt>
      <auth030:Tp>ALOC</auth030:Tp>
      <auth030:TmStmp>
        <auth030:Dt>2006-05-04</auth030:Dt>
      </auth030:TmStmp>
    </auth030:DerivEvt>
    <auth030:TradClr>
      <auth030:ClrSts>
        <auth030:NonClrd>
```

```

    <auth030:Rsn>NORE</auth030:Rsn>
  </auth030:NonClrd>
</auth030:ClrSts>
</auth030:TradClr>
</auth030:TxData>
</auth030:CmonTradData>
<auth030:Lvl>PSTN</auth030:Lvl>
</auth030:New>
</auth030:Rpt>
</auth030:TradData>
</auth030:DerivsTradRpt>
</auth030:Document>
</ns0:Pyld>
</ns0:BizData>
</nsde:BusinessPayload>
</ns:EmirDerivativeRq>

```

### How to fill in the form



The EMIRDerivativeRq message using  
 'http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport' namespace,  
 the BusinessPayload message below it is using  
 'http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport/EmirDerivative' namespace



The BizData part follows the ISO20022 standard as defined by ESMA.

**./BusinessPayload/BizData/Hdr**

**./AppHdr/Fr/OrigId/Id/OrigId/Othr/Id**

Submitter LEI code

**./AppHdr/Fr/OrigId/Id/OrigId/Othr/SchmeNm/Prtry**

'LEI' Fixed value

**./AppHdr/To/OrigId/Id/OrigId/Othr/Id**

LEI code of Keler Zrt

**./AppHdr/To/OrigId/Id/OrigId/Othr/SchmeNm/Prtry**

'LEI' Fixed value

**./AppHdr/BizMsgIdr**

Business package unique identifier. The guide contains information regarding the process of creating it (LEI code + unique identifier for client). xsd string maxLength 35

**./AppHdr/MsgDefIdr**

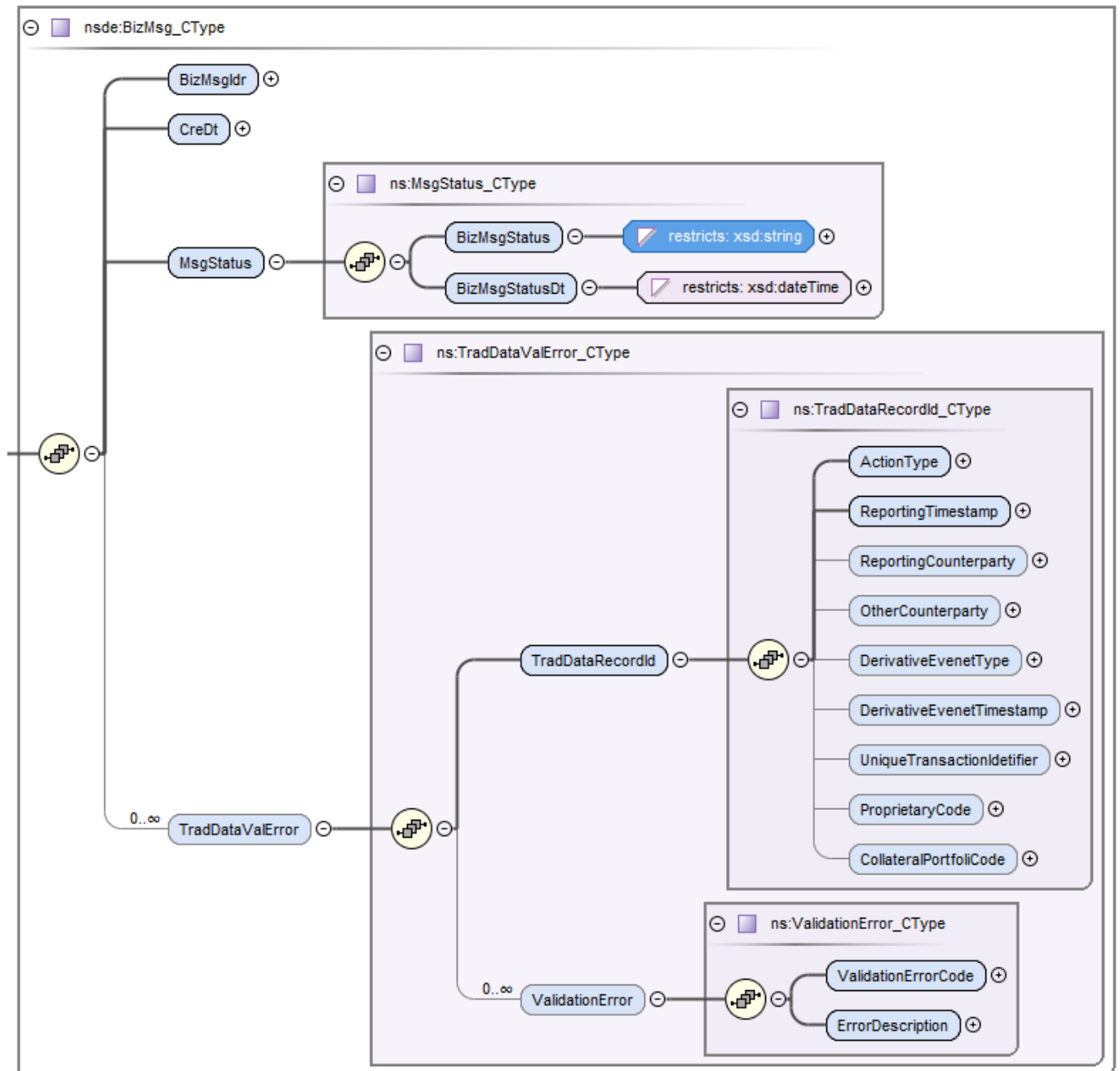
Report type ISO2022. *'auth.030.001.01\_ESMAUG\_1.0.0'*. xsd string maxLength 35

**./AppHdr/CreDt**

Report time . xsd dateTime

In the case of a repeated submission (e.g. due to a network error), the Keler TR system considers the ./AppHdr/BizMsgIdr field value as a unique key. In this case, the content of the BusinessPayload does not need to be modified.

## Response



Returned values that can be given in response

### **./BizMsgldr**

From original message BAH (Hdr). xsd string maxLength 35

### **./CreDt**

From original message BAH (Hdr). xsd dateTime

### **./MsgStatus/BizMsgStatus**

xsd string maxLength 7

Possible values for BizMsgStatus:

Status code/ Status code	Language/Language	Status description / Status
--------------------------	-------------------	-----------------------------

		description
RCVK	EN	Retrieved from
RCVK	EN	Received
RJCK	EN	Incorrect received
RJCK	EN	Received with error

**./MsgStatus/BizMsgStatusDt**

Status message time. xsd dateTime

**./TradDataValError(optional, only in case of error)/TradDataRecordId/**

Fields required to identify the packet at record level

**./ActionType**

It comes from operation. To be translated into new-NEWT etc.

**./ReportingTimestamp**

Report timestamp \*/RptgTmStmp

**./ReportingCounterparty**

LEI code \*/RptgCtrPty/Id/Lgl/LEI

**./OtherCounterparty**

Legal (Lgl) or Natural (Ntrl) identifier

**./DerivativeEventType**

Field not currently used

**./DerivativeEventTimestamp**

Field not currently used

**./UniqueTransactionIdentifier**

UTI UnqTxldr

**./ProprietaryCode**

Report Prtry value

**./CollateralPortfolioCode**

Report Prtl/Cd value

The appearing values are depending on the values in the rejected original message.

**./TradDataValError (optional, only in case of error)/ ValidationError/**

**./ValidationErrorCode**

If there is a business logic validation error in the record, its error code and description. A list of error codes is included in the business description

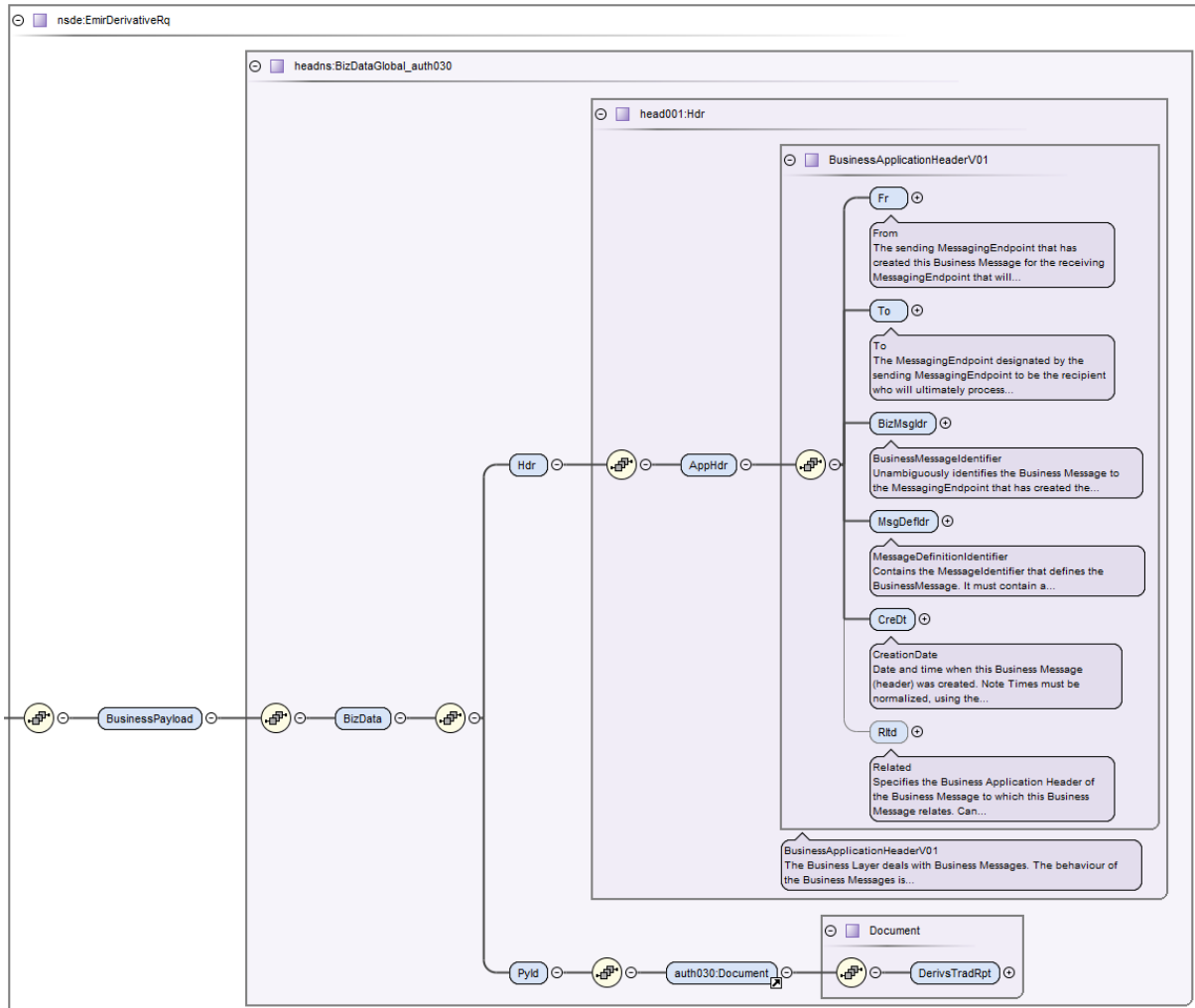
**./ErrorDescription**

Error description

## EmirMarginData

Receive client auth.108 report

## How to fill in the form



The EMIRDerivativeRq message is using 'http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport' namespace, the BusinessPayload message below it is using 'http://xsd.keler.com/ESB/BusinessFunction/Emir/TradeReport/EmirMarginData.' namespace.

The BizData part follows the ISO20022 standard as defined by ESMA.

**./BusinessPayload/BizData/Hdr**

**./AppHdr/Fr/OrigId/Id/OrigId/Othr/Id**

Submitter LEI code

**./AppHdr/Fr/OrigId/Id/OrigId/Othr/SchmeNm/Prtry**

'LEI' Fixed value

**./AppHdr/To/OrigId/Id/OrigId/Othr/Id**

LEI code of Keler Zrt

**./AppHdr/To/OrigId/Id/OrigId/Othr/SchmeNm/Prtry**

'LEI' Fixed value

**./AppHdr/BizMsgIdr**

Business package unique identifier. The guide contains instruction how to create it (LEI code + unique identifier for customer). xsd string maxLength 35

### **./AppHdr/MsgDefldr**

Report type ISO2022. 'auth.108.001.01\_ESMAUG\_1.0.0'. xsd string maxLength 35

### **./AppHdr/CreDt**

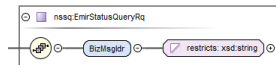
Reporting time. xsd dateTime

The service operates in the same way as EmirDerivative

## **EmirStatusQuery**

Query the status of a trade repo report sent by a client

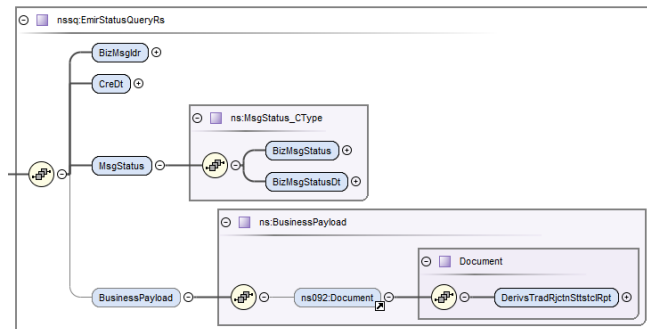
### **Request**



### **./BizMsgIdr**

From original message BAH (Hdr). xsd string maxLength 35

### **Response**



Values returned in reply message .

### **./BizMsgIdr**

From the original request at BizMsgIdr. xsd string maxLength 35

### **./CreDt**

Original report timestamp from BAH (Hdr) xsd dateTime

### **./MsgStatus/BizMsgStatus**

Status per report packet. xsd string maxLength 7

Possible values for BizMsgStatus:

Status code/ Status code	Language/Language	Status description / Status description
ACPT	EN	Accepted by REGIS-TR
ACPT	EN	Adopted by REGIS-TR
FLSD	EN	Failed to send to REGIS-TR
FLSD	EN	Unsuccessful transmission to REGIS-TR

RCVD	EN	Send to REGIS-TR
RCVD	EN	sent to REGIS-TR
RCVK	EN	Received
RCVK	EN	Retrieved from
RJCK	EN	Received with error
RJCK	EN	Incorrect received
RJCT	EN	Rejected by REGIS-TR
RJCT	EN	Rejected by REGIS-TR
SENT	EN	Sending to REGIS-TR in progress
SENT	EN	Sending to REGIS-TR in progress

**./MsgStatus/BizMsgStatusDt**

Current timestamp. xsd dateTime

**./BusinessPayload/Document**

Auth.092 returned by trade repo, identified by BizMsgIdr

## Troubleshooting

In the event of network, timeout errors, a SOAP call with the same content must be repeated. If the package has been successfully received previously, the (otherwise duplicated) call response will contain a acknowledgement of receipt but will not be resent to the trade repo. This avoids duplicates and allows a previously failed call to be closed.

In case of resending packets previously considered as failed (RJCT status), the error "Such BizMsgIdr is already in the system" is displayed in the response message. In this case the call must be repeated with a new BizMsgIdr.

There may be other system access errors, which are returned by the middleware layers in the SOAP header ./ResponseHeader/statusInfo section.

**./statusCode**

0 - no error, all other values indicate an error, http reply status code 200

9001 - Processing error (e.g. xsd validation) or KelerTR access error,  
http reply status code 500

9003 - Error returned by KelerTR, http reply status code 404  
xsd string maxLength 16

**./statusSeverity**

Level. I - Information, W - Warning, E - Error

xsd string maxLength 1

If an unmanaged or unexpected error occurs, a standard SOAP fault is included in the response, http reply status code 500