Technical documentation for Norges Banks money market reporting v.1.2

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Change log

Version	Date	Description
1.0	04 Dec 2018	First version
1.1	25 Jan 2019	Updated data quality check code list Miscellaneous updates
1.2	25 Feb 2019	List of technical errors updated Validation sequence updated Naming convention for outbound files is changed

1   Background

This document describes the tecnical aspects of reporting money market transaction data to Norges Bank. For more background information and user manual for the reporting, please see " User guide – Daily reporting on money market data" which can be found at https://www.norges-bank.no/Bank-og-marked/pengemarkedsdata/

2 File transfer protocols

2.1 Secure file transfer (SFTP)

The daily reporting shall be conducted as a file transfer between the reporting agent and Norges Bank. The reporting agent will receive its own SFTP-account for transfer of the transaction files to Norges Bank. The reporting agent uploads the transaction files to the "INBOUND" folder under the root folder. Files that are saved to this folder will automatically be read by Norges Banks system (called "RPD").

The file format is XML based on schemas defined by the ISO 20022 standard. The XSD-schemas describes the structure of incoming and outgoing files. The file-encoding should be UTF-8

The files will be validated by the system. The result of the validation procedure will be transmitted to the reporting agent in a status file saved to the "OUTBOUND" folder. There will also be sent an email with the status of the file transfer.

The file should be uploaded with ".part" file extension. When the upload is complete the reporting agent renames the file extension to ".xml". When the system imports the received files all files with the .xml extension in the "INBOUND" folder will be deleted. There is no limit on the number of files a reporting agent can upload in a day. Files older than 7 days in the "OUTBOUND" folder will automatically be deleted. The reporting agent is also able to delete files in this folder.

2.1.1 File transfer process

2.1.1.1   The reporting agent uploads a file to Norges Bank

```
Client                                    Exit  ◄──────────────── NO ──────────┐
Start                                      ▲                                    │
  │                                        │                                    │
  │ SFTP                                   NO                                   │
  │                                        │                                    │
  ▼                                        │                                    │
SFTP              User/Pass          User/Pass          Key exchange      Validate Key
connection to ──►             ──►    Correct    ─Yes─►                ──► OK?
Norges Bank                                                                     │
                                                                               Yes
                                                                                │
                                                                                ▼
Exit ◄── Logout ◄── Rename *.part ◄── PUT *.part ◄── chdir
                    to .xml                           ~/INBOUND
```
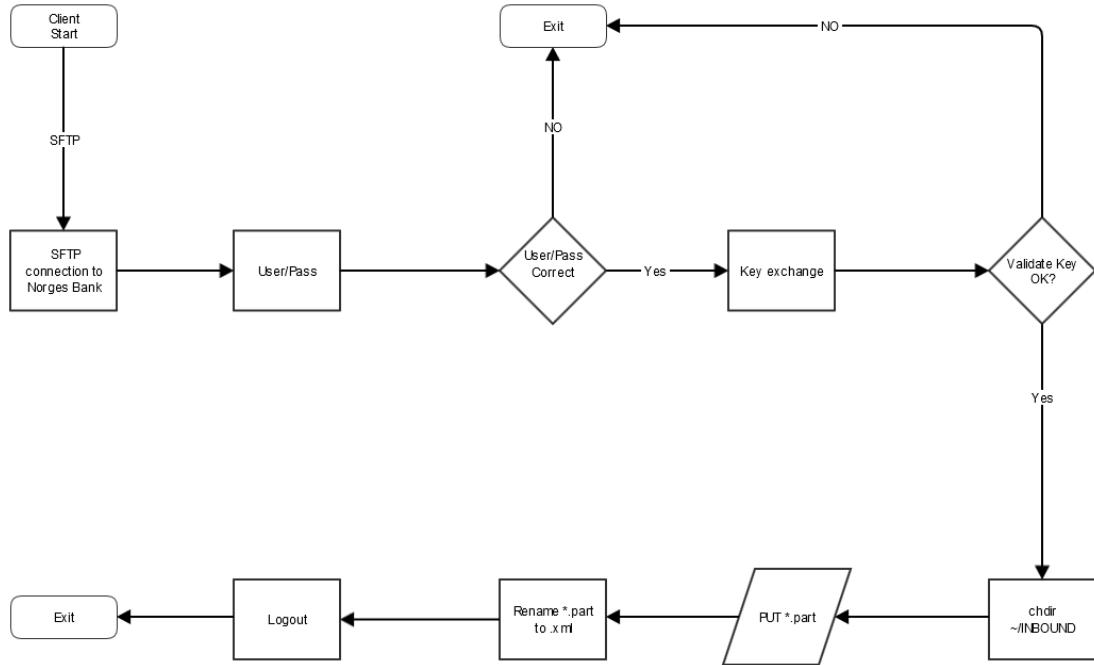
2.1.1.2   The reporting agent receives response file from Norges Bank

```
Client                                    Exit  ◄──────────────── NO ──────────┐
Start                                      ▲                                    │
  │                                        │                                    │
  │ SFTP                                   NO                                   │
  │                                        │                                    │
  ▼                                        │                                    │
SFTP              User/Pass          User/Pass          Key               Validate Key
connection to ──►             ──►    Correct    ─Yes─►  exchange      ──►
Norges Bank                                                                     │
  ▲                                                                            Yes
  │                                                                             │
Wait > 5 min.                                                                   ▼
  ▲                                                                          chdir
  │                                                                          ~/OUTBOUND
Logout                                                                          │
  ▲                                                                             │
  │                                                                             │
  └──────────── Delete *.XML ◄── GET *.XML ◄───────────────────────────────────┘
```
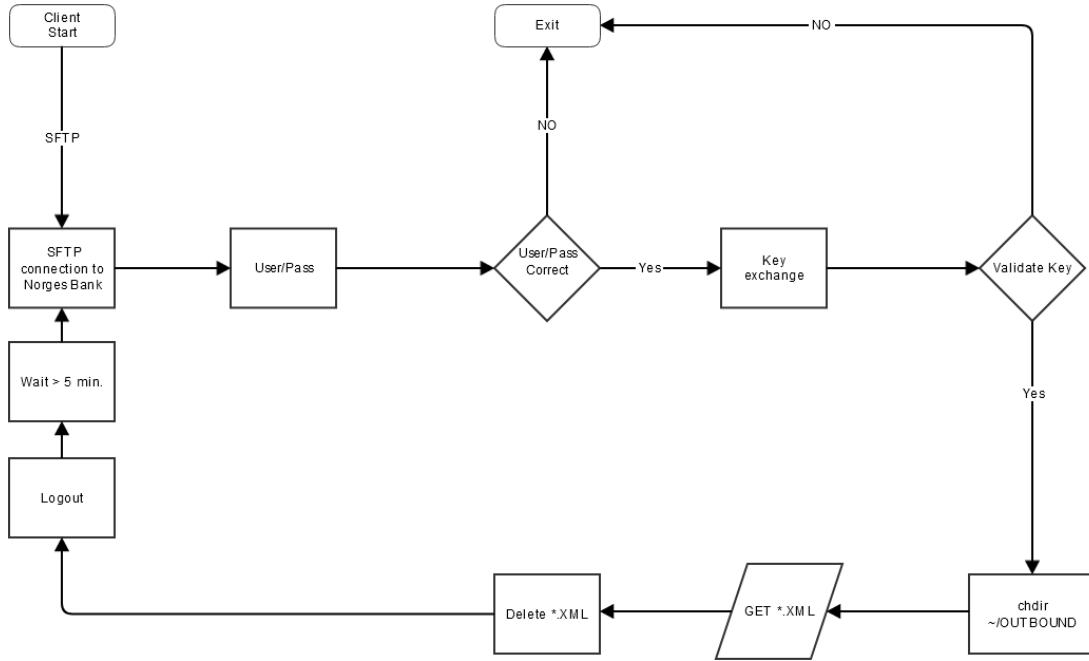
2.2   Email

2.2.1 Reporting via email

The system also supports receiving transaction files via email. This functionality is enabled on request from the reporting agent.

The email addresses should only be used for reporting. It will not be monitored and there will not be any replies from these addresses.

Environment	Email address	Replying address
Test	rpd-test@norges-bank.no	noreply@norges-bank.no
Prod	rpd@norges-bank.no	noreply@norges-bank.no

For the system to read emails from the reporting agent, the email has to have exactly the same subject as the filename that is attached (the transaction file to be reported)

The reporting agent has to register the email address that is sending the reporting with Norges Bank for the system to read the files. Emails with replies from Norges Bank will be sent to an email that the reporting agent chooses.

The emails sent from Norges Bank with status of the received file will contain detailed information regarding the import as an attachment. The filename conventions are the same for email and SFTP file transfers.

It is not possible to reply to these emails. The emails will be sent from noreply@norges-bank.no.

2.2.2 Notification via email

The reporting agent has to register a technical email address with Norges Bank. This address will receive different emails from the system:

1. When a file is received the system will reply with an email with the status of the transfer. MD5 checksum and the size of the file among other things will be included

    a. If the file is transferred via email, the reporting agent will receive the status file Money Market Statistical Report Status Advice V01 (auth.028.001.01) as an attachment.

    a. If the file is transferred via SFTP, the status file Money Market Statistical Report Status Advice V01 (auth.028.001.01) will be saved to the OUTBOUND folder.

2. Reminders of missing reporting. This will be sent when the deadline for reporting on a given day expires.

3. A list of rejected transactions that has to be corrected. This is sent if one or more transactions are not corrected within 24 hours after the reporting deadline.

3   Reporting formats

3.1   Reporting format

The XML-format is based on ISO 20022.The relevant schemas is available for download from
https://www.iso20022.org/full_catalogue.page (under "Authorities") or from MyStandards (Swift). On the MyStandards pages
you will find downloadable schemas which include documentation for all fields. You have to be a registered user to have
access to MyStandards.

One transaction file consists of 3 parts, where every part has its own XSD-schema. A root schema defines a technical
wrapper. This schema has references to two other schemas which constitute:

1.   Business Application Header (BAH)

2.   A transaction document that has two blocks:

      a.   Reporting header: specifies reporting entity, reference period etc.

      b.   Reporting message: information on each transaction

An illustration of the composition of the different XSD-schemas which in sum constitutes the contents of a RPD message
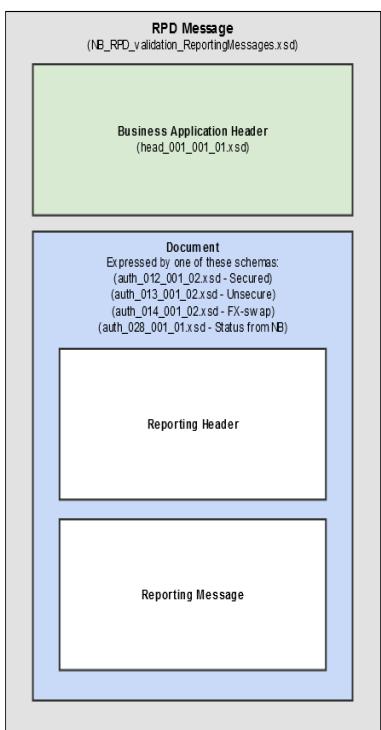
The technical wrapper (NB_RPD_validation_ReportingMessages.xsd) has the following contents:

Code Block 1 NB_RPD_validation_ReportingMessages.xsd

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns="urn:iso:std:iso:20022:tech:xsd:head.003.001.01"
           xmlns:xs="http://www.w3.org/2001/XMLSchema"
           xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
           xmlns:secured="urn:iso:std:iso:20022:tech:xsd:auth.012.001.02"
           xmlns:unsecured="urn:iso:std:iso:20022:tech:xsd:auth.013.001.02"
           xmlns:fx="urn:iso:std:iso:20022:tech:xsd:auth.014.001.02"
           xmlns:status="urn:iso:std:iso:20022:tech:xsd:auth.028.001.01"
           targetNamespace="urn:iso:std:iso:20022:tech:xsd:head.003.001.01"
           elementFormDefault="qualified">

  <xs:import namespace="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
           schemaLocation="head_001_001_01.xsd" />
  <xs:import namespace="urn:iso:std:iso:20022:tech:xsd:auth.012.001.02"
           schemaLocation="auth_012_001_02.xsd" />
  <xs:import namespace="urn:iso:std:iso:20022:tech:xsd:auth.013.001.02"
           schemaLocation="auth_013_001_02.xsd" />
  <xs:import namespace="urn:iso:std:iso:20022:tech:xsd:auth.014.001.02"
           schemaLocation="auth_014_001_02.xsd" />
  <xs:import namespace="urn:iso:std:iso:20022:tech:xsd:auth.028.001.01"
           schemaLocation="auth_028_001_01.xsd" />

  <xs:element name="RPDMessage" type="RPDMessageV01" />
  <xs:complexType name="RPDMessageV01">
    <xs:sequence>
      <xs:element ref="bah:AppHdr" />
      <xs:choice>
        <xs:element ref="secured:Document" />
        <xs:element ref="unsecured:Document" />
        <xs:element ref="fx:Document" />
        <xs:element ref="status:Document" />
      </xs:choice>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

Note that this is not available for download from MyStandards or iso20022.org

Graphical representation of the same file:
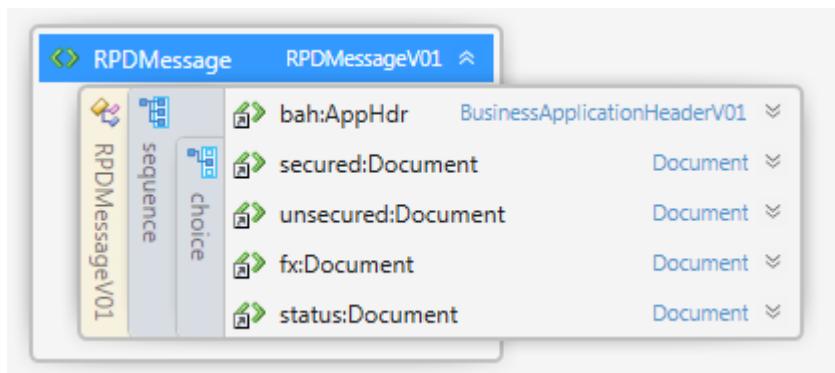
3.1.1 XSD-schemas describing the reporting format to Norges Bank

All reporting messages must be in accordance with the schemas. This means that an RPDMessage must include a Business Application Header (BAH) section and a document section which is determined by which segment the transactions are in.

For reporting transactions in the secured segment the scheme in the document is defined by auth_012_001_02.xsd.
For reporting transactions in the unsecured segment the scheme in the document is defined by auth_013_001_02.xsd.

For reporting transactions in the FX-swap segment the scheme in the document is defined by auth_014_001_02.xsd

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Message format (with links to MyStandard)	Required	Description	File name
Technical wrapper for NB_PRD (not available from MyStandards)	Yes, always	Technical wrapper with reference to all schemas	NB_RPD_validation_ReportingMessages.xsd
Business Application Header V01 (head.001.001.01)	Yes, always	Business Header (must be included)	head_001_001_01.xsd
Money Market Secured Market Statistical Report V02 (auth.012.001.02)	Yes, for secured transactions	Reporting message for secured transactions	auth_012_001_02.xsd
Money Market Unsecured Market Statistical Report V02 (auth.013.001.02)	Yes, for unsecured transactions	Reporting message for unsecured transactions	auth_013_001_02.xsd
Money Market Foreign Exchange Swaps Statistical Report V02 (auth.014.001.02)	Yes, for FX-swap transactions	Reporting message for FX-swap transactions	auth_014_001_02.xsd

3.1.2 XSD-schemas describing status messages from Norges Bank to reporting agent

When Norges Bank processes received files these will be validated with regards to format and contents. Whether a file has been accepted, partially accepted or rejected will be reported back in a status file. The status file uses the same technical wrapper and BAH as the reported file, but uses a document which is defined in the schema in auth_028_001_01.xsd.

Message format (with link to MyStandard)	Required	Description	File name
Technical wrapper for NB_RPD (not available from MyStandards)	Yes, always	Technical wrapper with reference to all forms	NB_RPD_validation_ReportingMessages.xsd
Business Application Header V01 (head.001.001.01)	Yes, always	Header	head_001_001_01.xsd
Money Market Statistical Report Status Advice V01 (auth.028.001.01)	Yes, always	https://www2.swift.com/mystandards/#/mx/auth.028.001.01!content Contents (from NB to the reporting agent) only used by NB to create status messages to reporting agent	auth_028_001_01.xsd

Graphical representation of RDPMessage, BAH and Money Market Statistical Report Status Advice V01 (auth.028.001.01)
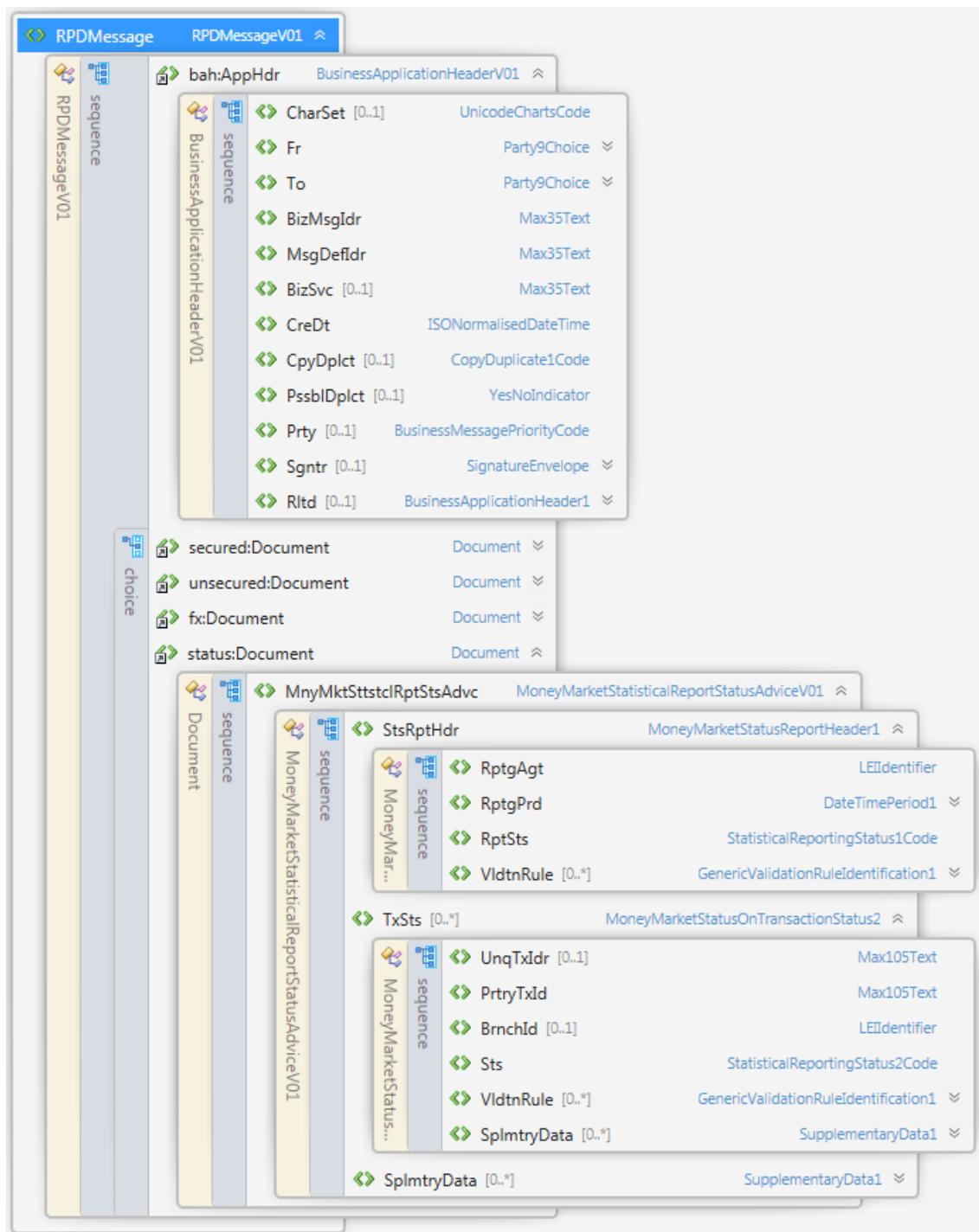
3.1.3 Versioning of schemas

The namespace in the XSD-schemas defines which version that is used, e.g. auth.012.001.02

"Auth" says that the format is under the Authorities business area https://www.iso20022.org/full_catalogue.page

The message in the auth domain has a unique message id equal to 12, variant number 1 and version number 2.

Decoding of the namespace illustrated:
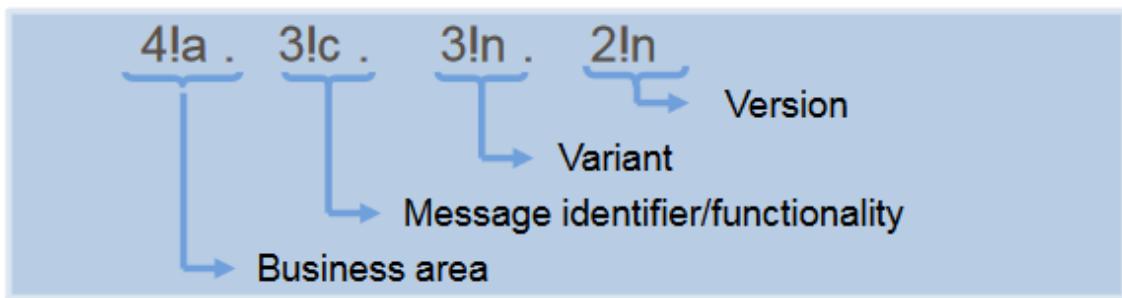
3.2 Reporting deadlines, changes and errors

3.2.1 Reporting deadlines

The daily reporting requirement is for all Norwegian bank days. The reporting should be delivered to Norges Bank between 18:00 the same day and 07:00 the following bank day. For example, a transaction conducted on Monday should be reported between 18:00 on Monday and 07:00 Tuesday. If Tuesday is not a bank day, the deadline would be Wednesday 07:00.

3.2.2 Amendments and corrections in reported transactions

If errors in previously reported transaction are discovered this should be corrected such that the reported transactions always reflects the correct information. If there are changes to a previous reported transaction, the reporting agent should always use the original transaction number. Amendments and corrections can usually be a part of the daily reporting, and does not need to be sent as separate files. Changes to previously reported transaction are classified as follows:

- Amendments (AMND): Errors or changes in previously reported transactions that are discovered by the reporting agent and changed on the reporting agents own initiative.
- Corrections (CORR): Errors that are discovered by Norges Bank and corrected by the reporting agent
- Cancellation (CANC): Transaction data that should not have been reported or should be deleted for other reasons.

The reporting agent can only change previous transactions that has been accepted by the system (status = ACPT).

Changes as a result of renegotiations, e.g. the deal rate or maturity, should be reported as a new transaction (NEWT). Novation (change of counterparty) should be reported in the same way as renegotiations. The message should in addition be flagged as a novation (NOVA) and the transaction number for the original transaction should be reported in the field «RELATED PROPRIETARY TRANSACTION IDENTIFICATION»

3.2.3 Reporting without volumes

On days without relevant transaction in one or more of the segments it is still required to report to Norges Bank. The reporting message(s) should be flagged with "NOTX"

3.2.4 Environments for data upload

There are two environments availiable for the reporting agents, a test environment and a production environment. There are separate addresses for both SFTP and emails. The Business Application Header (BAH) must have one of:

- NB RPD PROD (Production data)
- NB RPD TEST (Test data)

in the BizSyc field.

3.2.5 Naming conventions for files

An RPD-file can only contain information related to one reporting agent and one market segment.

3.2.5.1 Incoming files sent by reporting agent to Norges Bank

The file name should follow the following convention:

<MARKET SEGMENT IDENTIFIER>.<LEI>.<DATE>.<INCREMENTAL>

<MARKET SEGMENT IDENTIFIER>	Length: 15 characters
	Contains market segment for the data. Legal values:
	"auth.012.001.02" for secured transactions.
	"auth.013.001.02" for unsecured transactions.
	"auth.014.001.02" for FX-swap transactions.
<LEI>	Length: 20 characters
	The LEI-code of the reporting agent. Has to be agreed upon in advanced with Norges Bank.
<DATE>	Length: 8 characters
	The reference date. Specified in ISO 8601 with format YYYYMMDD.
<INCREMENTAL>	Length: 4 characters
	Daily numerical incremental number. Every day it should start with the value "0001".
	Total length including file extension (.xml): 54 characters

As an example: the filename for secured transactions for bank NN on the 2. January 2019 with an incremental value of "0004" (the fourth file sent by this reporting agent for the secured segment this day) should be:
auth.012.001.02.XXXXXXXXXXXXXXXXX00.20190102.0004.xml

3.2.5.2   Outgoing status file sent from Norges Bank to reporting agent

The file name should follow the following convention:

<MARKET SEGMENT IDENTIFIER>.<LEI>.<DATE>.<INCREMENTAL>.<NB INCREMENTAL>

<MARKET SEGMENT IDENTIFIER>	Length: 15 characters
	Same value as inbound file
<LEI>	Length: 20 characters
	Same value as inbound file
<DATE>	Length: 8 characters
	Same value as inbound file
<INCREMENTAL>	Length: 4 characters
	Same value as inbound file
<NB INCREMENTAL>	Length: 10 characters
	Unique sequence number
	Total length including file extension (.xml): 65 characters

As an example: auth.012.001.02.XXXXXXXXXXXXXXXXX00.20190102.0004.0000000123.xml

3.3 Data integrity

All data received by Norges Bank will be validated. For each transaction file received, the system will return a status file to the reporting agent. This file will be produced within 5 minutes of Norges Bank receiving the file. The validation procedure will

check for technical errors and validate the data. The result of the validation procedure will be delivered in an ISO 20022 XML file with a Money Market Statistical Report Status Advice message. The status file contains the information needed for the reporting agent to correct the errors found by the system and resubmit the reporting.
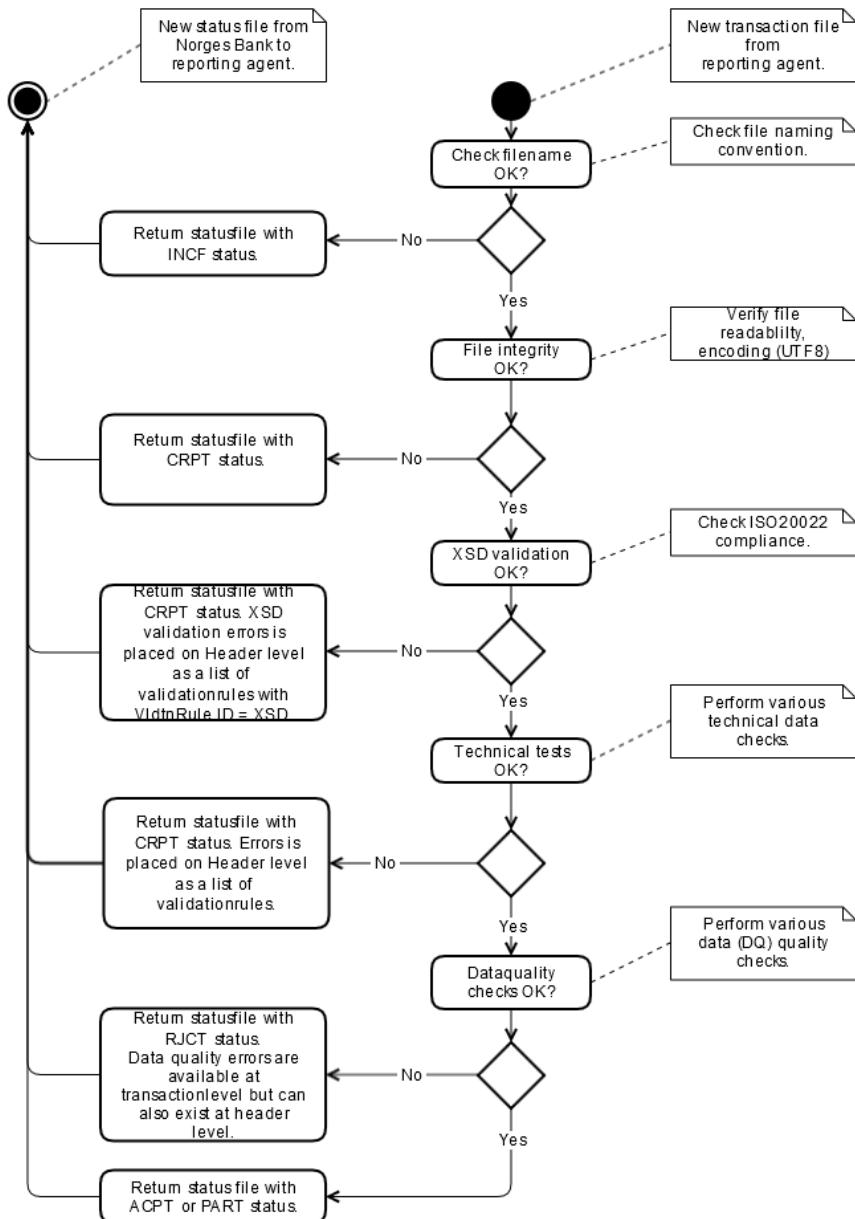
3.3.1 Technical errors

Technical errors means that the file is rejected before it's read by the Norges Bank. In the header of the MoneyMarketStatisticalReportStatusAdviceV01 message (StsRptHdr) there is a status code (StsRptHdr.RptSts). For technical errors the status will be either **INCF** (incorrect file name) or **CRPT** (corrupted file). When incoming transaction files have keys with values that are unreadable, the elements will be populated with default values.DateTime values will be set to "9999-12-31T23:59:59.999Z". LEI-codes will be set to "XXXXXXXXXXXXXXXXXX00".

Possible header status codes for technical errors:

Header status code (StsRptHdr.RptSts)	Comment

Header status code (StsRptHdr.RptSts)	Comment
INCF	The filename does not conform to the naming convention
CRPT	The file is not formatted in accordance with the XSD-schemas defined by the ISO 20022 standard or the file contains other inconsistent information.

There could be several reasons as to why the header status code shows an error. For more details pertaining to the error check the validation rule block (VldtnRule) which also is located in the header. In this block the reporting agent will be able to find the result of the validation and an explanation as to why it has failed. VldtnRule.Desc is a description of the validation error.

Possible codes for ValidationRule for different combinations of header status code:

VldtnRule.Id	Header status code (StsRptHdr.RptSts)	VldtnRule.Desc (error message)
UTF8	CRPT	The file could not be read as an UTF-8 encoded file. The file must be UTF-8 encoded.
XSD	CRPT	The file will be validated against the relevant schemas. One or more XSD validation errors may be generated.
SEGMENT	CRPT	Wrong segment identifier. The segment identifier indicates which segment the transactions belong to; secured, unsecured or FX-swap. Segment code must be given in the MsgDefIdr element in the BAH. Possible values: **MsgDefIdr** — **Description** auth.012.001.02 — Secure segment auth.013.001.02 — Unsecure segment auth.014.001.02 — FX-Swap segment
DIFFERENT_SEGMENT	CRPT	The segment identifier (BAH.MsgDefIdr) must be in accordance with the document type in the document. Possible values: **MsgDefIdr** — **Required document type** auth.012.001.02 — MoneyMarketSecuredMarketStatisticalReportV02 auth.013.001.02 — MoneyMarketUnsecuredMarketStatisticalReportV02 auth.014.001.02 — MoneyMarketForeignExchangeSwapsStatisticalReportV02
BUSINESS_SERVICE	CRPT	Error in the value in the BAH that defines the environment that is being reported to. Possible values: **BizSvc** — **Description** NB_RPD_PROD — File content is marked as production data NB_RPD_TEST — File content is marked as test data
RECEIVER_LEI	CRPT	Use Norges Bank LEI-code (549300O6E2WAK3IAXE34).
SENDER_LEI	CRPT	LEI-code for reporting agent (RptgAgt) does not correspond to the LEI-code in the filename.
NO_HABILITATION	CRPT	The LEI-code (FR) in the BAH is not registered as a valid LEI for reporting on behalf of the reporting agent. When third party providers are using their own LEI-code in BAH, this LEI (RptgAgt) has to be registered to be able to report on

VldtnRule.Id	Header status code (StsRptHdr.RptSts)	VldtnRule.Desc (error message)
		behalf of the reporting agent. Changes to LEI-codes must be communicated to Norges Bank.
DUPLICATE_HEADER	CRPT	The unique message id (BizMsgIdr) in the BAH has already been used. All messages should have a unique id.
INCFILENM	INCF	The filename does not conform to the naming convention

3.3.2 Errors in transactions

Errors in the submissions are discovered thru different data checks. Each check has its own data quality check code. Errors will be in the status file which is transmitted back to the reporting agent. Each error will have a reference to the error code (VldtnRule.Id) and an error message (VldtnRule.Desc). An overview of the possible error codes and messages can be found later in this document.

As with the technical errors, the status in the header (RptSts) will be set after the data quality checks. Every transaction that has an error will have its own status code (Sts). The transaction reference block (TxSts) will in addition have a list of validation rules (VldtnRule) that is violated for the transaction. The validation rule has a reference to a unique data quality check id (VldtnRule.Id) and a description (VldtnRule.Desc)

The entire submission will be discarded if the number of transactions with errors exceeds 20 per cent. If the number of transactions with errors is less than 20 per cent the submission will be partially accepted. The remaining transactions that have errors have to be resubmitted. When a transaction has to be amended\corrected the original transaction number (PrtryTxId) has to be used together with the update mode (RptdTxSts). The transaction number must be in the system as an active transaction (status ACPT or WARN) to be amended/corrected/canceled. If the transactions with errors are not corrected within 24 hours after the deadline for reporting, the reporting agent will receive an email with a list of transaction that still has errors.

Possible status codes for accepted, partially accepted and rejected reports

Header status code (StsRptHdr.RptSts)	Transaction status code (TxSts.Sts)	Comment
ACPT	ACPT or WARN	The reporting is accepted (ACPT). All transactions are accepted or accepted with warning (WARN)
PART	RJCT, ACPT or WARN	The reporting is partially accepted (PART). One or more transactions are not accepted (RJCT) and have to be amended and resubmitted.
RJCT	RJCT, ACPT or WARN	The reporting is rejected (RJCT) because the number of transactions with errors is above 20 % of total transactions.

3.3.3 Data quality check codes

Segment	DQ Number	Field	Location	Element name	Description of data quality check
Secured	DQS101	REPORTED TRANSACTION STATUS	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	RptdTxSts	Could not find the historical transaction that is to be amended. Check PROPRIETARY TRANSACTION IDENTIFICATION
Secured	DQS102	REPORTED TRANSACTION STATUS	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	RptdTxSts	Could not find the historical transaction that is to be corrected. Check PROPRIETARY TRANSACTION IDENTIFICATION
Secured	DQS103	REPORTED TRANSACTION	Document.MnyMktScrdMktSttstclRpt.ScrdM	RptdTxSts	Could not find the historical transaction that is to be deleted. Check PROPRIETARY TRANSACTION

Segment	DQ Number	Field	Location	Element name	Description of data quality check
		STATUS	ktRpt.Tx		IDENTIFICATION
Secured	DQS202	UNIQUE TRANSACTION IDENTIFIER	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	UnqTxIdr	Duplicate found in the database for this reporting agent and this segment and the transaction status is NEWT.
Secured	DQS203	UNIQUE TRANSACTION IDENTIFIER	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	UnqTxIdr	Duplicate found in a file.
Secured	DQS302	PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	PrtryTxId	Duplicate found in the database for this reporting agent and this segment and the transaction status is NEWT.
Secured	DQS303	PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	PrtryTxId	Duplicate found in a file.
Secured	DQS350	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is reported when NOVATION STATUS is NONO or when NOVATION STATUS is missing
Secured	DQS351	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is not reported when NOVATION STATUS is NOVA
Secured	DQS352	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is reported, but PROPRIETARY TRANSACTION IDENTIFIER is not found in the database.
Secured	DQS500	COUNTERPARTY IDENTIFICATION	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	CtrPtyId. NmAndLctn	NameAndLocation is not allowed as counterparty identification. Only LEI code or SectorAndLocation can be used
Secured	DQS802	TRADE DATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	TradDt	TRADE DATE is later than SETTLEMENT DATE
Secured	DQS803	TRADE DATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	TradDt	TRADE DATE is later than MATURITY DATE
Secured	DQS804	TRADE DATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	TradDt	TRADE DATE is later than CREATION DATE
Secured	DQS805	TRADE DATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	TradDt	TRADE DATE it later than REFERENCE PERIOD
Secured	DQS902	SETTLEMENT DATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	SttlmDt	SETTLEMENT DATE is equal or later than MATURITY DATE
Secured	DQS1004	MATURITY DATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	MtrtyDt	The difference between MATURITY DATE and SETTLEMENT DATE is more than 397 days
Secured	DQS1500	DEAL RATE	Document.MnyMktScrdMktSttstclRpt.ScrdM	DealRate	Missing value for DEAL RATE when RATE TYPE is FIXE

Segment	DQ Number	Field	Location	Element name	Description of data quality check
			ktRpt.Tx		
Secured	DQS1501	DEAL RATE	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	DealRate	DEAL RATE is reported when RATE TYPE is VARI
Secured	DQS1600	REFERENCE RATE INDEX	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	FltgRateRpAgrmt.RefRateIndx	Missing value for REFERENCE RATE INDEX when RATE TYPE is VARI
Secured	DQS1601	REFERENCE RATE INDEX	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	FltgRateRpAgrmt.RefRateIndx	REFERENCE RATE INDEX reported when RATE TYPE is FIXE
Secured	DQS2300	COLLATERAL NOMINAL AMOUNT	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	Coll.Valtn.OthrCollSnglColl.NmnlAmt Coll.Valtn.MltplColl.NmnlAmt Coll.Valtn.PoolColl.NmnlAmt	Missing value for COLLATERAL NOMINAL AMOUNT when SINGLE COLLATERAL ISIN or MULTIPLE COLLATERAL ISIN or POOL COLLATERAL ISIN is reported, and no TRIPARTY AGENT IDENTIFIACTION is reported
Secured	DQS2400	COLLATERAL HAIRCUT	Document.MnyMktScrdMktSttstclRpt.ScrdMktRpt.Tx	Coll.Hrcut	Missing value for COLLATERAL HAIRCUT when SINGLE COLLATERAL ISIN is reported, and TRIPARTY AGENT IDENTIFIACATION is missing.
Unsecured	DQU101	REPORTED TRANSACTION STATUS	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	RptdTxSts	Could not find historical transaction that is to be amended. Check PROPRIETARY TRANSACTION IDENTIFICATION
Unsecure	DQU102	REPORTED TRANSACTION STATUS	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	RptdTxSts	Could not find historical transaction that is to be corrected. Check PROPRIETARY TRANSACTION IDENTIFICATION
Unsecured	DQU103	REPORTED TRANSACTION STATUS	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	RptdTxSts	Could not find historical transaction that is to be deleted. Check PROPRIETARY TRANSACTION IDENTIFICATION
Unsecured	DQU202	UNIQUE TRANSACTION IDENTIFIER	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	UnqTxIdr	Duplicate found in the database for this reporting agent and segment and transaction status is NEWT
Unsecured	DQU203	UNIQUE TRANSACTION IDENTIFIER	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	UnqTxIdr	Duplicate found in a reported file
Unsecured	DQU302	PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	PrtryTxId	Duplicate found in the database for this reporting agent and segment and transaction status is NEWT.
Unsecured	DQU303	PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	PrtryTxId	Duplicate found in a reported file
Unsecured	DQU350	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktUscrdMktSttstclRpt.UscrdMktRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is reported when NOVATION STATUS is NONO or when NOVATION STATUS is missing
Unsecured	DQU351	RELATED	Document.MnyMktUscrdMktSttstclRpt.Uscr	RltdPrtryTxId	RELATED PROPRIETARY

Segment	DQ Number	Field	Location	Element name	Description of data quality check
		PROPRIETARY TRANSACTION IDENTIFICATION	crdMktSttstclRpt.Uscr dMktRpt.Tx		TRANSACTION IDENTIFICATION is not reported when NOVATION STATUS is NOVA
Unsecured	DQU352	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is reported, but PROPRIETARY TRANSACTION IDENTIFIER does not exist in the database for the reporting agent in this segment
Unsecured	DQU500	COUNTERPARTY IDENTIFICATION	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	CtrPtyId.NmAndL ctn	NameAndLocation is not allowed as counterparty identification. Only LEI code or SectorAndLocation can be used
Unsecured	DQU802	TRADE DATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	TradDt	TRADE DATE is later than SETTLEMENT DATE
Unsecured	DQU803	TRADE DATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	TradDt	TRADE DATE is after MATURITY DATE
Unsecured	DQU804	TRADE DATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	TradDt	TRADE DATE is after CREATION DATE
Unsecured	DQU805	TRADE DATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	TradDt	TRADE DATE is after REFERENCE PERIOD
Unsecured	DQU902	SETTLEMENT DATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	SttlmDt	SETTLEMENT DATE is equal or lather than MATURITY DATE
Unsecured	DQU1004	MATURITY DATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	MtrtyDt	The difference between MATURITY DATE and SETTLEMENT DATE is greater than 397 days
Unsecured	DQU1102	INSTRUMENT TYPE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	InstrmTp	INSTRUMENT TYPE is reported as CACM when Call/Put option is reported
Unsecured	DQU1104	INSTRUMENT TYPE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	InstrmTp	INSTRUMENT TYPE is reported as FRNT when RATE TYPE is FIXE
Unsecured	DQU1500	DEAL RATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	DealRate	Missing value for DEAL RATE when RATE TYPE is FIXE
Unsecured	DQU1501	DEAL RATE	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	DealRate	DEAL RATE is reported when RATE TYPE is VARI
Unsecured	DQU1600	REFERENCE RATE INDEX	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	FltgRateNote.Ref RateIndx	Missing value for FLOATING RATE NOTE when RATE TYPE is VARI
Unsecured	DQU1601	REFERENCE RATE INDEX	Document.MnyMktUs crdMktSttstclRpt.Uscr dMktRpt.Tx	FltgRateNote.Ref RateIndx	FLOATING RATE NOTE is reported when RATE TYPE is FIXE
Unsecured	DQU2102	CALL/PUT NOTICE PERIOD	Document.MnyMktUs crdMktSttstclRpt.Uscr	CallPutOptn.DtOr Prd.NtcePrd	CALL/PUT NOTICE PERIOD is greater than the number of days between SETTLEMENT DATE and MATURITY

Segment	DQ Number	Field	Location	Element name	Description of data quality check
			dMktRpt.Tx		DATE
FX-swap	DQF101	REPORTED TRANSACTION STATUS	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	RptdTxSts	Could not find historical transaction that is to be amended. Check PROPRIETARY TRANSACTION IDENTIFICATION
FX-swap	DQF102	REPORTED TRANSACTION STATUS	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	RptdTxSts	Could not find historical transaction that is to be corrected. Check PROPRIETARY TRANSACTION IDENTIFICATION
FX-swap	DQF103	REPORTED TRANSACTION STATUS	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	RptdTxSts	Could not find historical transaction that is to be deleted. Check PROPRIETARY TRANSACTION IDENTIFICATION
FX-swap	DQF202	UNIQUE TRANSACTION IDENTIFIER	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	UnqTxIdr	Duplicate found in the database for this reporting agent and segment and transaction status is NEWT.
FX-swap	DQF203	UNIQUE TRANSACTION IDENTIFIER	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	UnqTxIdr	Duplicate found in a reported file
FX-swap	DQF302	PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	PrtryTxId	Duplicate found in the database for this reporting agent and segment and transaction status is NEWT.
FX-swap	DQF303	PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	PrtryTxId	Duplicate found in a reported file
FX-swap	DQF350	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is reported when NOVATION STATUS is NONO or when NOVATION STATUS is missing
FX-swap	DQF351	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is not reported when NOVATION STATUS is NOVA
FX-swap	DQF352	RELATED PROPRIETARY TRANSACTION IDENTIFICATION	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	RltdPrtryTxId	RELATED PROPRIETARY TRANSACTION IDENTIFICATION is reported, but PROPRIETARY TRANSACTION IDENTIFIER does not exist in the database for the reporting agent in this segment.
FX-swap	DQF500	COUNTERPART Y IDENTIFICATION	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	CtrPtyId.NmAndL ctn	NameAndLocation is not allowed as counterparty identification. Only LEI code or SectorAndLocation can be used
FX-swap	DQF802	TRADE DATE	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	TradDt	TRADE DATE is greater than VALUE DATE
FX-swap	DQF803	TRADE DATE	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	TradDt	TRADE DATE is greater than MATURITY DATE
FX-swap	DQF804	TRADE DATE	Document.MnyMktFX SwpsSttstclRpt.FXSw psRpt.Tx	TradDt	TRADE DATE is greater than CREATION DATE

Segment	DQ Number	Field	Location	Element name	Description of data quality check
FX-swap	DQF805	TRADE DATE	Document.MnyMktFXSwpsSttstclRpt.FXSwpsRpt.Tx	TradDt	TRADE DATE is greater than REFERENCE PERIOD
FX-swap	DQF902	VALUE DATE	Document.MnyMktFXSwpsSttstclRpt.FXSwpsRpt.Tx	SpotValDt	VALUE DATE is equal to or greater than MATURITY DATE
FX-swap	DQF1004	MATURITY DATE	Document.MnyMktFXSwpsSttstclRpt.FXSwpsRpt.Tx	MtrtyDt	The difference between MATURITY DATE and VALUE DATE is greater than 397 days
FX-swap	DQF1302	FOREIGN CURRENCY CODE	Document.MnyMktFXSwpsSttstclRpt.FXSwpsRpt.Tx	FX.FrgnCcy	NOK is reported as foreign currency code
FX-swap	DQF1402	FOREIGN EXCHANGE SPOT RATE	Document.MnyMktFXSwpsSttstclRpt.FXSwpsRpt.Tx	FX.XchgSpotRate	FOREIGN EXCHANGE SPOT RATE is less than or equal to 0

4 Example files

4.1 Status files from Norges Bank to reporting agent

Code Block 2 Status message with XSD validation error

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RPDMessage xmlns:status="urn:iso:std:iso:20022:tech:xsd:auth.028.001.01"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns="urn:iso:std:iso:20022:tech:xsd:head.003.001.01">
  <bah:AppHdr>
    <bah:Fr>
      <bah:OrgId>
        <bah:Id>
          <bah:OrgId>
            <bah:Othr>
              <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
              <bah:SchmeNm>
                <bah:Cd>LEI</bah:Cd>
              </bah:SchmeNm>
            </bah:Othr>
          </bah:OrgId>
        </bah:Id>
      </bah:OrgId>
    </bah:Fr>
    <bah:To>
      <bah:OrgId>
        <bah:Id>
          <bah:OrgId>
            <bah:Othr>
              <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
              <bah:SchmeNm>
                <bah:Cd>LEI</bah:Cd>
              </bah:SchmeNm>
            </bah:Othr>
          </bah:OrgId>
        </bah:Id>
      </bah:OrgId>
    </bah:To>
    <bah:BizMsgIdr>INTREF00000001</bah:BizMsgIdr>
    <bah:MsgDefIdr>auth.028.001.01</bah:MsgDefIdr>
    <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
    <bah:CreDt>2018-12-05T08:14:23.2789673Z</bah:CreDt>
    <bah:Rltd>
      <bah:Fr>
        <bah:OrgId>
          <bah:Id>
            <bah:OrgId>
              <bah:Othr>
                <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
                <bah:SchmeNm>
                  <bah:Cd>LEI</bah:Cd>
                </bah:SchmeNm>
              </bah:Othr>
            </bah:OrgId>
          </bah:Id>
        </bah:OrgId>
      </bah:Fr>
      <bah:To>
        <bah:OrgId>
          <bah:Id>
            <bah:OrgId>
              <bah:Othr>
                <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                <bah:SchmeNm>
                  <bah:Cd>LEI</bah:Cd>
                </bah:SchmeNm>
              </bah:Othr>
            </bah:OrgId>
          </bah:Id>
        </bah:OrgId>
```

```
        </bah:To>
        <bah:BizMsgIdr>INTREF00000001</bah:BizMsgIdr>
        <bah:MsgDefIdr>auth.012.001.02</bah:MsgDefIdr>
        <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
        <bah:CreDt>2018-11-07T18:30:00Z</bah:CreDt>
      </bah:Rltd>
    </bah:AppHdr>
    <status:Document>
      <status:MnyMktSttstclRptStsAdvc>
        <status:StsRptHdr>
          <status:RptgAgt>549300O6E2WAK3IAXE34</status:RptgAgt>
          <status:RptgPrd>
            <status:FrDtTm>2018-11-06T18:00:00Z</status:FrDtTm>
            <status:ToDtTm>2018-11-07T18:00:00Z</status:ToDtTm>
          </status:RptgPrd>
          <status:RptSts>CRPT</status:RptSts>
          <status:VldtnRule>
            <status:Id>XSD</status:Id>
            <status:Desc>Line: 59, Position 26: "The
'urn:iso:std:iso:20022:tech:xsd:auth.012.001.02:TxTp' element is invalid - The value 'DDEE' is
invalid according to its datatype
'urn:iso:std:iso:20022:tech:xsd:auth.012.001.02:MoneyMarketStatusOnTransactionType1Code' - The
Enumeration constraint failed."</status:Desc>
          </status:VldtnRule>
          <status:VldtnRule>
            <status:Id>XSD</status:Id>
            <status:Desc>Line: 63, Position 7: "The element 'Tx' in namespace
'urn:iso:std:iso:20022:tech:xsd:auth.012.001.02' has invalid child element 'BrkrdDeal2' in namespace
'urn:iso:std:iso:20022:tech:xsd:auth.012.001.02'. List of possible elements expected:
'FltgRateRpAgrmt, BrkrdDeal, Coll' in namespace
'urn:iso:std:iso:20022:tech:xsd:auth.012.001.02'."</status:Desc>
          </status:VldtnRule>
        </status:StsRptHdr>
      </status:MnyMktSttstclRptStsAdvc>
    </status:Document>
</RPDMessage>
```

Code Block 3 Status file for successful transfer

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RPDMessage xmlns:status="urn:iso:std:iso:20022:tech:xsd:auth.028.001.01"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns="urn:iso:std:iso:20022:tech:xsd:head.003.001.01">
   <bah:AppHdr>
     <bah:Fr>
       <bah:OrgId>
         <bah:Id>
           <bah:OrgId>
             <bah:Othr>
               <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
               <bah:SchmeNm>
                 <bah:Cd>LEI</bah:Cd>
               </bah:SchmeNm>
             </bah:Othr>
           </bah:OrgId>
         </bah:Id>
       </bah:OrgId>
     </bah:Fr>
     <bah:To>
       <bah:OrgId>
         <bah:Id>
           <bah:OrgId>
             <bah:Othr>
               <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
               <bah:SchmeNm>
                 <bah:Cd>LEI</bah:Cd>
               </bah:SchmeNm>
             </bah:Othr>
           </bah:OrgId>
         </bah:Id>
       </bah:OrgId>
     </bah:To>
     <bah:BizMsgIdr>INTREF00000001</bah:BizMsgIdr>
     <bah:MsgDefIdr>auth.028.001.01</bah:MsgDefIdr>
     <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
     <bah:CreDt>2018-12-05T08:56:18.3809673Z</bah:CreDt>
     <bah:Rltd>
       <bah:Fr>
         <bah:OrgId>
           <bah:Id>
             <bah:OrgId>
               <bah:Othr>
                 <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
                 <bah:SchmeNm>
                   <bah:Cd>LEI</bah:Cd>
                 </bah:SchmeNm>
               </bah:Othr>
             </bah:OrgId>
           </bah:Id>
         </bah:OrgId>
       </bah:Fr>
       <bah:To>
         <bah:OrgId>
           <bah:Id>
             <bah:OrgId>
               <bah:Othr>
                 <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                 <bah:SchmeNm>
                   <bah:Cd>LEI</bah:Cd>
                 </bah:SchmeNm>
               </bah:Othr>
             </bah:OrgId>
           </bah:Id>
         </bah:OrgId>
       </bah:To>
       <bah:BizMsgIdr>INTREF00000001</bah:BizMsgIdr>
       <bah:MsgDefIdr>auth.012.001.02</bah:MsgDefIdr>
       <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
       <bah:CreDt>2018-11-07T18:30:00Z</bah:CreDt>
     </bah:Rltd>
   </bah:AppHdr>
```

```xml
  <status:Document>
    <status:MnyMktSttstclRptStsAdvc>
      <status:StsRptHdr>
        <status:RptgAgt>549300O6E2WAK3IAXE34</status:RptgAgt>
        <status:RptgPrd>
          <status:FrDtTm>2018-11-06T18:00:00Z</status:FrDtTm>
          <status:ToDtTm>2018-11-07T18:00:00Z</status:ToDtTm>
        </status:RptgPrd>
        <status:RptSts>ACPT</status:RptSts>
      </status:StsRptHdr>
      <status:TxSts>
        <status:PrtryTxId>48ed9b6f-a3a2-42dc-86ad-5acd8b310622</status:PrtryTxId>
        <status:Sts>ACPT</status:Sts>
      </status:TxSts>
    </status:MnyMktSttstclRptStsAdvc>
  </status:Document>
</RPDMessage>
```

Code Block 4 Status message for file without transactions

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RPDMessage xmlns:status="urn:iso:std:iso:20022:tech:xsd:auth.028.001.01"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns="urn:iso:std:iso:20022:tech:xsd:head.003.001.01">
  <bah:AppHdr>
    <bah:Fr>
      <bah:OrgId>
        <bah:Id>
          <bah:OrgId>
            <bah:Othr>
              <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
              <bah:SchmeNm>
                <bah:Cd>LEI</bah:Cd>
              </bah:SchmeNm>
            </bah:Othr>
          </bah:OrgId>
        </bah:Id>
      </bah:OrgId>
    </bah:Fr>
    <bah:To>
      <bah:OrgId>
        <bah:Id>
          <bah:OrgId>
            <bah:Othr>
              <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
              <bah:SchmeNm>
                <bah:Cd>LEI</bah:Cd>
              </bah:SchmeNm>
            </bah:Othr>
          </bah:OrgId>
        </bah:Id>
      </bah:OrgId>
    </bah:To>
    <bah:BizMsgIdr>INTREF00000005</bah:BizMsgIdr>
    <bah:MsgDefIdr>auth.028.001.01</bah:MsgDefIdr>
    <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
    <bah:CreDt>2018-12-05T08:53:25.7719673Z</bah:CreDt>
    <bah:Rltd>
      <bah:Fr>
        <bah:OrgId>
          <bah:Id>
            <bah:OrgId>
              <bah:Othr>
                <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
                <bah:SchmeNm>
                  <bah:Cd>LEI</bah:Cd>
                </bah:SchmeNm>
              </bah:Othr>
            </bah:OrgId>
          </bah:Id>
        </bah:OrgId>
      </bah:Fr>
      <bah:To>
        <bah:OrgId>
          <bah:Id>
            <bah:OrgId>
              <bah:Othr>
                <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                <bah:SchmeNm>
                  <bah:Cd>LEI</bah:Cd>
                </bah:SchmeNm>
              </bah:Othr>
            </bah:OrgId>
          </bah:Id>
        </bah:OrgId>
      </bah:To>
      <bah:BizMsgIdr>INTREF00000005</bah:BizMsgIdr>
      <bah:MsgDefIdr>auth.012.001.02</bah:MsgDefIdr>
      <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
      <bah:CreDt>2018-11-07T18:30:00Z</bah:CreDt>
    </bah:Rltd>
  </bah:AppHdr>
```

```xml
  <status:Document>
    <status:MnyMktSttstclRptStsAdvc>
      <status:StsRptHdr>
        <status:RptgAgt>549300O6E2WAK3IAXE34</status:RptgAgt>
        <status:RptgPrd>
          <status:FrDtTm>2018-11-07T18:00:00Z</status:FrDtTm>
          <status:ToDtTm>2018-11-08T18:00:00Z</status:ToDtTm>
        </status:RptgPrd>
        <status:RptSts>ACPT</status:RptSts>
      </status:StsRptHdr>
    </status:MnyMktSttstclRptStsAdvc>
  </status:Document>
</RPDMessage>
```

Code Block 5 Status message for file with errors and data quality error code

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RPDMessage xmlns:status="urn:iso:std:iso:20022:tech:xsd:auth.028.001.01"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns="urn:iso:std:iso:20022:tech:xsd:head.003.001.01">
  <bah:AppHdr>
    <bah:Fr>
      <bah:OrgId>
        <bah:Id>
          <bah:OrgId>
            <bah:Othr>
              <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
              <bah:SchmeNm>
                <bah:Cd>LEI</bah:Cd>
              </bah:SchmeNm>
            </bah:Othr>
          </bah:OrgId>
        </bah:Id>
      </bah:OrgId>
    </bah:Fr>
    <bah:To>
      <bah:OrgId>
        <bah:Id>
          <bah:OrgId>
            <bah:Othr>
              <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
              <bah:SchmeNm>
                <bah:Cd>LEI</bah:Cd>
              </bah:SchmeNm>
            </bah:Othr>
          </bah:OrgId>
        </bah:Id>
      </bah:OrgId>
    </bah:To>
    <bah:BizMsgIdr>INTREF00000001</bah:BizMsgIdr>
    <bah:MsgDefIdr>auth.028.001.01</bah:MsgDefIdr>
    <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
    <bah:CreDt>2018-12-05T08:56:18.3809673Z</bah:CreDt>
    <bah:Rltd>
      <bah:Fr>
        <bah:OrgId>
          <bah:Id>
            <bah:OrgId>
              <bah:Othr>
                <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
                <bah:SchmeNm>
                  <bah:Cd>LEI</bah:Cd>
                </bah:SchmeNm>
              </bah:Othr>
            </bah:OrgId>
          </bah:Id>
        </bah:OrgId>
      </bah:Fr>
      <bah:To>
        <bah:OrgId>
          <bah:Id>
            <bah:OrgId>
              <bah:Othr>
                <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                <bah:SchmeNm>
                  <bah:Cd>LEI</bah:Cd>
                </bah:SchmeNm>
              </bah:Othr>
            </bah:OrgId>
          </bah:Id>
        </bah:OrgId>
      </bah:To>
      <bah:BizMsgIdr>INTREF00000001</bah:BizMsgIdr>
      <bah:MsgDefIdr>auth.012.001.02</bah:MsgDefIdr>
      <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
      <bah:CreDt>2018-11-07T18:30:00Z</bah:CreDt>
    </bah:Rltd>
  </bah:AppHdr>
```

```
  <status:Document>
    <status:MnyMktSttstclRptStsAdvc>
      <status:StsRptHdr>
        <status:RptgAgt>549300O6E2WAK3IAXE34</status:RptgAgt>
        <status:RptgPrd>
          <status:FrDtTm>2018-11-06T18:00:00Z</status:FrDtTm>
          <status:ToDtTm>2018-11-07T18:00:00Z</status:ToDtTm>
        </status:RptgPrd>
        <status:RptSts>RJCT</status:RptSts>
      </status:StsRptHdr>
      <status:TxSts>
        <status:PrtryTxId>48ed9b6f-a3a2-42dc-86ad-5acd8b310622</status:PrtryTxId>
        <status:Sts>RJCT</status:Sts>
    <status:VldtnRule>
        <status:Id>DQS103</status:Id>
        <status:Desc>Kan ikke kansellere transaksjon. PrtryTxId=48ed9b6f-a3a2-42dc-86ad-
5acd8b310622 er ukjent.</status:Desc>
      </status:VldtnRule>
 </status:TxSts>
    </status:MnyMktSttstclRptStsAdvc>
  </status:Document>
</RPDMessage>
```

4.2 Transaction files from reporting agent to Norges Bank

Code Block 6 File with transaction (Secured segment)

```
<?xml version="1.0" encoding="utf-8" ?>
<!--Bank Confidential-->
<boe:RPDMessage xmlns:boe="urn:iso:std:iso:20022:tech:xsd:head.003.001.01"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns:secured="urn:iso:std:iso:20022:tech:xsd:auth.012.001.02"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.003.001.01
NB_RPD_validation_ReportingMessages.xsd">
    <bah:AppHdr>
        <bah:Fr>
            <bah:OrgId>
                <bah:Id>
                    <bah:OrgId>
                        <bah:Othr>
                            <bah:Id>ABC1234567890DEFGHIJ</bah:Id>
                            <bah:SchmeNm>
                                <bah:Cd>LEI</bah:Cd>
                            </bah:SchmeNm>
                        </bah:Othr>
                    </bah:OrgId>
                </bah:Id>
            </bah:OrgId>
        </bah:Fr>
        <bah:To>
            <bah:OrgId>
                <bah:Id>
                    <bah:OrgId>
                        <bah:Othr>
                            <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                            <bah:SchmeNm>
                                <bah:Cd>LEI</bah:Cd>
                            </bah:SchmeNm>
                        </bah:Othr>
                    </bah:OrgId>
                </bah:Id>
            </bah:OrgId>
        </bah:To>
```

```xml
            <bah:BizMsgIdr>INTREF00000002</bah:BizMsgIdr>
            <bah:MsgDefIdr>auth.012.001.02</bah:MsgDefIdr>
            <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
            <bah:CreDt>2018-11-14T18:30:00Z</bah:CreDt>
    </bah:AppHdr>
    <secured:Document>
        <secured:MnyMktScrdMktSttstclRpt>
            <secured:RptHdr>
                <secured:RptgAgt>G5GSEF7VJP5I7OUK5574</secured:RptgAgt>
                <secured:RefPrd>
                    <secured:FrDtTm>2018-11-13T18:00:00Z</secured:FrDtTm>
                    <secured:ToDtTm>2018-11-14T18:00:00Z</secured:ToDtTm>
                </secured:RefPrd>
            </secured:RptHdr>
            <secured:ScrdMktRpt>
                <secured:Tx>
                    <secured:RptdTxSts>NEWT</secured:RptdTxSts>
                    <secured:PrtryTxId>619fe0b1-72c8-4cab-bf05-280c09210b8b</secured:PrtryTxId>
                    <secured:CtrPtyId>
                    <secured:SctrAndLctn>
                        <secured:Sctr>F221</secured:Sctr>
                        <secured:Lctn>NO</secured:Lctn>
                    </secured:SctrAndLctn>
                    </secured:CtrPtyId>
                    <secured:TradDt>
                        <secured:DtTm>2018-11-14T09:00:00Z</secured:DtTm>
                    </secured:TradDt>
                    <secured:SttlmDt>2018-11-14</secured:SttlmDt>
                    <secured:MtrtyDt>2018-11-15</secured:MtrtyDt>
                    <secured:TxTp>LEND</secured:TxTp>
                    <secured:TxNmnlAmt Ccy="NOK">25000000</secured:TxNmnlAmt>
                    <secured:RateTp>FIXE</secured:RateTp>
                    <secured:DealRate>0.45</secured:DealRate>
                    <secured:BrkrdDeal>BILA</secured:BrkrdDeal>
                    <secured:Coll>
                        <secured:Valtn>
                            <secured:SnglColl>
                                <secured:NmnlAmt Ccy="NOK">26000000</secured:NmnlAmt>
                                <secured:ISIN>NO00B05EEED4</secured:ISIN>
                            </secured:SnglColl>
                        </secured:Valtn>
                        <secured:Hrcut>0.04</secured:Hrcut>
                        <secured:SpclCollInd>SPEC</secured:SpclCollInd>
                    </secured:Coll>
                </secured:Tx>
            </secured:ScrdMktRpt>
        </secured:MnyMktScrdMktSttstclRpt>
    </secured:Document>
</boe:RPDMessage>
```

Code Block 7 File with transaction (Unsecured segment)

```xml
<?xml version="1.0" encoding="utf-8" ?>
<!--Bank Confidential-->
<boe:RPDMessage xmlns:boe="urn:iso:std:iso:20022:tech:xsd:head.003.001.01"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns:unsecured="urn:iso:std:iso:20022:tech:xsd:auth.013.001.02"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.003.001.01
NB_RPD_validation_ReportingMessages.xsd">
    <bah:AppHdr>
        <bah:Fr>
            <bah:OrgId>
                <bah:Id>
                    <bah:OrgId>
                        <bah:Othr>
                            <bah:Id>G5GSEF7VJP5I7OUK5574</bah:Id>
                            <bah:SchmeNm>
                                <bah:Cd>LEI</bah:Cd>
                            </bah:SchmeNm>
                        </bah:Othr>
                    </bah:OrgId>
                </bah:Id>
            </bah:OrgId>
        </bah:Fr>
        <bah:To>
            <bah:OrgId>
                <bah:Id>
                    <bah:OrgId>
                        <bah:Othr>
                            <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                            <bah:SchmeNm>
                                <bah:Cd>LEI</bah:Cd>
                            </bah:SchmeNm>
                        </bah:Othr>
                    </bah:OrgId>
                </bah:Id>
            </bah:OrgId>
        </bah:To>
        <bah:BizMsgIdr>INTREF00000009</bah:BizMsgIdr>
        <bah:MsgDefIdr>UNSECURED</bah:MsgDefIdr>
        <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
        <bah:CreDt>2018-11-07T18:30:27Z</bah:CreDt>
    </bah:AppHdr>
    <unsecured:Document>
        <unsecured:MnyMktUscrdMktSttstclRpt>
            <unsecured:RptHdr>
                <unsecured:RptgAgt>G5GSEF7VJP5I7OUK5574</unsecured:RptgAgt>
                <unsecured:RefPrd>
                    <unsecured:FrDtTm>2018-11-06T18:00:00Z</unsecured:FrDtTm>
                    <unsecured:ToDtTm>2018-11-07T18:00:00Z</unsecured:ToDtTm>
                </unsecured:RefPrd>
            </unsecured:RptHdr>
            <unsecured:UscrdMktRpt>
                <unsecured:Tx>
                    <unsecured:RptdTxSts>NEWT</unsecured:RptdTxSts>

                    <unsecured:PrtryTxId>67ea6b78-4556-4492-83e3-b922c674e1aa</unsecured:PrtryTxId>
                    <unsecured:CtrPtyId>
                        <unsecured:LEI>ECTRVYYCEF89VWYS6K36</unsecured:LEI>
                    </unsecured:CtrPtyId>
                    <unsecured:TradDt>
                        <unsecured:DtTm>2018-11-07T09:00:00Z</unsecured:DtTm>
                    </unsecured:TradDt>
                    <unsecured:SttlmDt>2018-11-07</unsecured:SttlmDt>
                    <unsecured:MtrtyDt>9999-12-31</unsecured:MtrtyDt>
                    <unsecured:TxTp>BORR</unsecured:TxTp>
                    <unsecured:InstrmTp>DPST</unsecured:InstrmTp>
                    <unsecured:TxNmnlAmt Ccy="NOK">50000000</unsecured:TxNmnlAmt>
                    <unsecured:DealPric>100</unsecured:DealPric>
                    <unsecured:RateTp>VARI</unsecured:RateTp>
                    <unsecured:FltgRateNote>
                        <unsecured:RefRateIndx>NO00B05EEED4</unsecured:RefRateIndx>
                        <unsecured:BsisPtSprd>5</unsecured:BsisPtSprd>
```

```
            </unsecured:FltgRateNote>
            <unsecured:BrkrdDeal>BILA</unsecured:BrkrdDeal>
          </unsecured:Tx>
        </unsecured:UscrdMktRpt>
      </unsecured:MnyMktUscrdMktSttstclRpt>
    </unsecured:Document>
</boe:RPDMessage>
```

Code Block 8 File with transaction (FX-Swap segment)

```xml
<?xml version="1.0" encoding="utf-8" ?>
<!--Bank Confidential-->
<boe:RPDMessage xmlns:boe="urn:iso:std:iso:20022:tech:xsd:head.003.001.01"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:bah="urn:iso:std:iso:20022:tech:xsd:head.001.001.01"
xmlns:fx="urn:iso:std:iso:20022:tech:xsd:auth.014.001.02"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.003.001.01
NB_RPD_validation_ReportingMessages.xsd">
    <bah:AppHdr>
        <bah:Fr>
            <bah:OrgId>
                <bah:Id>
                    <bah:OrgId>
                        <bah:Othr>
                            <bah:Id>G5GSEF7VJP5I7OUK5574</bah:Id>
                            <bah:SchmeNm>
                                <bah:Cd>LEI</bah:Cd>
                            </bah:SchmeNm>
                        </bah:Othr>
                    </bah:OrgId>
                </bah:Id>
            </bah:OrgId>
        </bah:Fr>
        <bah:To>
            <bah:OrgId>
                <bah:Id>
                    <bah:OrgId>
                        <bah:Othr>
                            <bah:Id>549300O6E2WAK3IAXE34</bah:Id>
                            <bah:SchmeNm>
                                <bah:Cd>LEI</bah:Cd>
                            </bah:SchmeNm>
                        </bah:Othr>
                    </bah:OrgId>
                </bah:Id>
            </bah:OrgId>
        </bah:To>
        <bah:BizMsgIdr>INTREF00000055</bah:BizMsgIdr>
        <bah:MsgDefIdr>auth.014.001.02</bah:MsgDefIdr>
        <bah:BizSvc>NB_RPD_PROD</bah:BizSvc>
        <bah:CreDt>2018-11-07T18:30:27Z</bah:CreDt>
    </bah:AppHdr>
    <fx:Document>
        <fx:MnyMktFXSwpsSttstclRpt>
            <fx:RptHdr>
                <fx:RptgAgt>G5GSEF7VJP5I7OUK5574</fx:RptgAgt>
                <fx:RefPrd>
                    <fx:FrDtTm>2018-11-06T18:00:00Z</fx:FrDtTm>
                    <fx:ToDtTm>2018-11-07T18:00:00Z</fx:ToDtTm>
                </fx:RefPrd>
            </fx:RptHdr>
            <fx:FXSwpsRpt>
                <fx:Tx>
                    <fx:RptdTxSts>NEWT</fx:RptdTxSts>
                    <fx:PrtryTxId>67ea6b78-4556-4492-83e3-b922c674e1aa</fx:PrtryTxId>
                    <fx:CtrPtyId>
                        <fx:LEI>ECTRVYYCEF89VWYS6K36</fx:LEI>
                    </fx:CtrPtyId>
                    <fx:TradDt>
                        <fx:DtTm>2018-11-07T09:00:00Z</fx:DtTm>
                    </fx:TradDt>
                    <fx:SpotValDt>2018-11-08</fx:SpotValDt>
                    <fx:MtrtyDt>2018-11-12</fx:MtrtyDt>
                    <fx:TxTp>BUYI</fx:TxTp>
                    <fx:TxNmnlAmt Ccy="NOK">50000000</fx:TxNmnlAmt>
                    <fx:FX>
                        <fx:FrgnCcy>JPY</fx:FrgnCcy>
                        <fx:XchgSpotRate>13.3</fx:XchgSpotRate>
                        <fx:XchgFwdPt>-1.1</fx:XchgFwdPt>
                    </fx:FX>
                </fx:Tx>
            </fx:FXSwpsRpt>
```

```
        </fx:MnyMktFXSwpsSttstclRpt>
    </fx:Document>
</boe:RPDMessage>
```

5 Configuration and access to the reporting service

5.1 Access

To get started with the reporting the reporting agent has to go thru an onboarding process. When this is complete, the reporting agent will receive a username and other technical details to connect to the system. The reporting agent initiates the procedure by asking for access by sending an email to Pengemarkedsrapportering@Norges-Bank.no

5.2 Service window

The RPD-service is in principle open at all times, with a few exceptions when there is scheduled maintenance. When the service is operating as normal the response time will be less than 5 minutes from the files are received to a message is sent back from Norges Bank.

Extraordinary maintenance that will results in several hours of downtime will be communicated in advance.

5.3 Test systems

There is a test environment, which to the extent that it's possible mirrors the production system. The systems are separated and are offered to the reporting agents for testing purposes. There could be situation where the test and production systems are different. This will typically happen if there are new formats and functionality that is scheduled to be implemented. Changes of this nature will always be communicated from Norges Bank.

5.4 Support

Both technical and business related questions can be sent to Pengemarkedsrapportering@Norges-Bank.no.