

## **STINA guidelines**

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### **The structure of the XML report file**

#### **1. Introduction**

The guidelines are intended for enterprises wishing to automate their reporting to Danmarks Nationalbank's new balance of payments statistics. They describe the structure of the XML file to be created and submitted to Danmarks Nationalbank's electronic reporting system, STINA. The guidelines are primarily meant for the employees developing the XML file.

Other materials required for creating a correct XML file are:

- ◆ New balance of payments – guidelines and forms.
- ◆ Guidelines – automated reporting.
- ◆ XML Schema file (\*.xsd) for the report file.
- ◆ Reporting forms with XML names.

The description of the XML file structure contains references to Danmarks Nationalbank's reporting forms.

The description also compares Appendix 1, showing a hypothetical XML file completed with fictive information (called a dummy XML file), with the XML names on the reporting form, stating the exact XML names sheet by sheet and field by field.

First, the overall structure of the XML file is outlined, and then each sheet is described, detailing the information to be entered.

#### **2. Overall structure of the XML report file**

The elements of the XML file comprise 4 embedded levels. The structure of the elements is shown in example 1. Attributes are omitted for the sake of clarity<sup>1</sup>:

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<sup>1</sup> Appendix 1 describes the full structure, including attributes.

*Example 1: Element structure of the XML file*

```

<BOP>2
  <masterdata .....>
    <kontaktpersoner>
      <person ...../>
    </kontaktpersoner>
  </masterdata>
  <virksomhedsdata .....>
    <regnskabsdata>
      <data ...../>
    </regnskabsdata>
    <modervirksomhed>
      <data ...../>
    </modervirksomhed>
    <konsoliderede>
      <data ...../>
    </konsoliderede>
  </virksomhedsdata>
  <form_element_name>
    <rowtype_name_1>
      <data attr1=" attr2=" ... attrn="/>
    </rowtype_name_1>
  </form_element_name >
</BOP>

```

Embedded in the extreme element, *BOP*, are the *masterdata* and *virksomhedsdata* elements, as well as a number of *form* elements representing the report sheets on which figures are to be entered. Embedded in the *masterdata* element is the *kontaktpersoner* element, which may include *person* elements.

In the *virksomhedsdata* element, the elements *regnskabsdata*, *modervirksomhed* and *konsolideret* can be embedded. In these, *data* elements can be embedded.

In the *form* elements, *rowtype* elements can be embedded, representing a specific type of rows for entering data in the report file. In these *rowtype* elements, *data* elements can be embedded.

The convention chosen implies that all information is stored as values for the data-element attributes<sup>3</sup>, cf. also Appendix 1. The elements themselves are thus empty, i.e. they have no independent values. Another convention implies that where no values can be stated for a non-mandatory attribute, the attribute in its entirety (i.e. the attribute name and its value) should be omit-

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<sup>2</sup> BOP is an abbreviation of Balance of Payments.

<sup>3</sup> However, there are also information-bearing attributes in the *masterdata* and *person* elements.

ted from the XML file. Consequently, it is not permitted to state the attribute name with an empty value attached (e.g. `attname=""`) in the XML file.

### **3. Sheet 1: Master data**

The first sheet in the Excel template is used for general enterprise data (including contact names), as well as the serial number of the report.

This information is to be placed in the `masterdata` element. The dummy XML file in Appendix 1 shows that information is borne by attributes to the `masterdata` element. However, details about the individual contact names are stored in the attributes to a `person` element, which is embedded in the `kontaktpersoner` element, which is in turn embedded in the `masterdata` element. The correlation between the entry fields in the Excel template and the associated attributes is shown in "Reporting forms with XML names".

### **4. Sheet 2: Enterprise data (Virksomhedsdata)**

The second sheet in the Excel template, `Virksomhedsdata` (Enterprise data), is used for information about accounting issues, group data and fully consolidated enterprises included in the reporting.

The information is to be placed in the `virksomhedsdata` element. The dummy XML file in Appendix 1 shows that the information concerning accounting issues, parent enterprise and consolidated enterprises is placed in attributes to embedded data elements. The correlation between the entry fields in the Excel template and the associated attributes is shown in "Reporting forms with XML names".

### **5. Sheet 3: Form A1**

The third sheet of the Excel template, `Form A1`, is used for information on the position in Danish and foreign shares and other equity investments with ISIN codes not deposited with a custodian institution in Denmark. Information can be entered in two row types, i.e. for positions with voting rights of 20 per cent or more, or less than 20 per cent, respectively.

From "Reporting forms with XML names" on `Form A1` it appears that the form element name is `APF_AKIS`, and that the two row types have the row-type element names `DIU` and `AKU`, respectively. The entry fields contain the names of the attributes to the data element in which the information entered is to be stored.

This gives the XML structure shown in Example 2 for placing information entered into `Form A1` in the XML report file, cf. the overall structure of the XML report file in Example 1 above and Appendix 1.

*Example 2: XML structure of Form A1 (attribute values omitted)*

```

<APF_AKIS>
  <DIU>
    <data isin=" bprimo=" bstigning=" bnedgang=" bultimo=" udbyte="/>
  ...
    <data isin=" bprimo=" bstigning=" bnedgang=" bultimo=" udbyte="/>
  </DIU>
  <AKU>
    <data isin=" bprimo=" bultimo=" udbyte="/>
  ...
    <data isin=" bprimo=" bultimo=" udbyte="/>
  </AKU>
</APF_AKIS>
(End of example)

```

## **6. Remaining sheets (Forms A2 to A14, P1 to P8, S1, F1 and F2)**

The remaining forms are structured along the same lines as those described above. The relationship between the entry fields on the individual sheets and their attributes is shown in "Reporting forms with XML names".

Under the preceding form's form element, a new form element is created with the form element name of the new form. Subsequently, a rowtype element is embedded for each rowtype found on the form. Finally, data elements are created for each row entered, the information entered being placed as values for the relevant attributes. The data elements are to be embedded in the rowtype elements to which they belong.

## Appendix 1

## Print of dummy XML for BOP

```

<?xml version="1.0" encoding="UNICODE" ?>
- <BOP version="1" language="english">
  - <masterdata loebenr="1" firmanavn="Duchcity Cars Ltd."
    gadenavn="Road 1" postnr="1234" by="Duckcity"
    tlf="12345678" idno="99999999" refpe-
    rio="200501">
    - <kontaktpersoner>
      <person fuldtnavn="Donald Duck"
        tlf="12345678"
        email="donald@duckcity.com" />
    </kontaktpersoner>
  </masterdata>
  - <virksomhedsdata>
    - <regnskabsdata>
      <data mastervaluta="DKK" regnskfrape-
        rio="010504" regnskskilperio="300405" />
    </regnskabsdata>
    - <modervirksomhed>
      <data modernavn="Duckcity Cars Ltd. " mo-
        dercvr="99999999" />
    </modervirksomhed>
    - <konsoliderede>
      <data virknavn="Duckcity Cars Consulting
        Ltd." virkgadeognr="Road 2" virk-
        postnr="1234" virkby="Duckcity"
        virkcvr="12345679" />
    </konsoliderede>
  </virksomhedsdata>
  - <APF_AKIS>
    - <DIU>
      <data isin="SE0001065137" bprimo="32684"
        bstigning="31000" bnedgang="35510" bulti-

```

```
mo="65698" udbytte="25000" fritekst="ISIN
code is a test code" />
```

```
<data isin="CA7459101092" bprimo="122356"
bstigning="27330" bnedgang="35510" bulti-
mo="152813" udbytte="5689" />
```

```
<data isin="AT0000785407" bpri-
mo="4015825" bstigning="37530" bned-
gang="35510" bultimo="4258932" udbyt-
te="2359" />
```

```
<data isin="CH0005819724" bpri-
mo="18862774" bnedgang="0" bulti-
mo="20156897" udbytte="236" />
```

```
<data isin="NL0000008951" bpri-
mo="15001922" bnedgang="35510" bulti-
mo="15235987" />
```

```
<data isin="IE0009156104" bprimo="0" bstig-
ning="56987" bnedgang="35510" bulti-
mo="56235" />
```

```
<data isin="XS0092760841" bprimo="89652"
bnedgang="89652" bultimo="0" />
```

```
<data isin="SE0001065137" bprimo="431277"
bnedgang="35510" bultimo="391436" udbyt-
te="15897" />
```

```
</DIU>
```

```
⌋ <AKU>
```

```
<data isin="HU0000016522"
bprimo="1685241" bultimo="1600000" ud-
bytte="10000" fritekst="ISIN code is a test
code" />
```

```
</AKU>
```

```
</APF_AKIS>
```

```
⌋ <APF_AKEJ>
```

```
⌋ <DIU>
```

```
<data sektor="1100" land="DE" bstig-
ning="100000" bnedgang="200000" udbyt-
te="5000" />
```

```
</DIU>
_ <AKU>
  <data land="GB" bprimo="401556" bnet-
    totrans="-19572" bvalutaaendring="-24566"
    bprisaendring="45708" bultimo="403126"
    udbytte="25000" />
</AKU>
</APF_AKEJ>
_ <APF_OBIS>
  _ <OBU>
    <data isin="SE0001065137" bprimo="500" bul-
      timo="300" fritekst="ISIN code is a test
        code" />
  </OBU>
  _ <PMU>
    <data isin="HU0000016522" bprimo="250" bul-
      timo="125" fritekst="ISIN code is a test
        code" />
  </PMU>
</APF_OBIS>
_ <APF_OBEJ>
  _ <OBU>
    <data land="SE" denomvaluta="SEK" bpri-
      mo="705679" bnettotrans="352797" bsamle-
      taendring="-214" bultimo="1058262" />
  </OBU>
  _ <PMU>
    <data land="NO" denomvaluta="NOK" bpri-
      mo="339675" bnettotrans="-7140" bsamle-
      taendring="-5313" bultimo="327222" rnet-
      to="100" />
  </PMU>
</APF_OBEJ>
_ <ALI_HAKO>
```

```

- <OPA>
  <data denomvaluta="EUR" bprimo="1000" bultimo="2000" rnetto="500" />
</OPA>
- <NED>
  <data denomvaluta="USD" bprimo="2000" bultimo="4000" rnetto="1000" />
</NED>
- <TAN>
  <data denomvaluta="DKK" bprimo="3000" bultimo="6000" rnetto="1500" />
</TAN>
</ALI_HAKO>
- <ALI_LAKO>
  - <OPA>
    <data land="BE" denomvaluta="EUR" bprimo="6952" bnettotrans="1613" bsamle-
      taendring="-2" bultimo="8563" rnetto="388" />
  </OPA>
  - <NED>
    <data land="FR" denomvaluta="EUR" bprimo="10000" bnettotrans="4944" bsamle-
      taendring="56" bultimo="15000" rnetto="625" />
  </NED>
  - <UDL>
    <data land="ES" denomvaluta="EUR" bprimo="610" bnettotrans="115" bultimo="725" />
  </UDL>
  - <TAN>

```

```

    <data land="AU" denomvaluta="EUR" bpri-
      mo="750" bnettotrans="0" bsamle-
      taendring="0" bultimo="750" rnetto="0" />

  </TAN>

</ALI_LAKO>

= <ALI_OVKO>

  = <OPA>

    <data land="ES" denomvaluta="EUR" bpri-
      mo="6952" bnettotrans="1613" bsamle-
      taendring="-2" bultimo="8563" rnetto="388"
      />

    </OPA>

  = <NED>

    <data land="SE" denomvaluta="DKK" bpri-
      mo="11235" bnettotrans="-10491" bsamle-
      taendring="476" bultimo="1220" rnet-
      to="312" />

    </NED>

  = <UDL>

    <data land="NO" denomvaluta="NOK" bpri-
      mo="5000" bsamletaendring="0" bulti-
      mo="5000" rnetto="0" />

    </UDL>

  = <TAN>

    <data land="GB" denomvaluta="GBP" bpri-
      mo="50218" bnettotrans="0" bsamle-
      taendring="0" bultimo="50218" rnetto="-
      500" />

    </TAN>

</ALI_OVKO>

= <ALI_HALA>

  = <OPA>

    <data denomvaluta="EUR" bprimo="2788" bul-
      timo="504" rnetto="82" />

```

```

</OPA>

- <NED>

  <data denomvaluta="DKK" bprimo="100000"
    bultimo="0" rnetto="2500" />

</NED>

- <TAN>

  <data denomvaluta="NOK" bprimo="150" bulti-
    mo="150" rnetto="30" />

</TAN>

</ALI_HALA>

- <ALI_FILA>

  - <OPA>

    <data land="SE" denomvaluta="SEK" bpri-
      mo="6952" bnettotrans="1613" bsamle-
      taendring="-2" bultimo="8563" rnetto="388"
      />

    </OPA>

  - <NED>

    <data land="US" denomvaluta="USD" bpri-
      mo="11253" bnettotrans="-10491" bsamle-
      taendring="476" bultimo="1238" rnet-
      to="312" />

    </NED>

  - <UDL>

    <data land="AU" denomvaluta="AUD" bpri-
      mo="750" bnettotrans="0" bsamle-
      taendring="0" bultimo="750" rnetto="0" />

    </UDL>

  - <TAN>

    <data land="NZ" denomvaluta="NZD" bpri-
      mo="10000" bnettotrans="4944" bsamle-
      taendring="56" bultimo="15000" rnet-
      to="625" />

    </TAN>

```

```

</ALI_FILA>
_ <ALI_LALA>
  _ <OPA>
    <data land="FR" denomvaluta="EUR" bpri-
      mo="878" bnettotrans="0" bsamle-
      taendring="0" bultimo="878" rnetto="44" />
  </OPA>
  _ <NED>
    <data land="ES" denomvaluta="EUR" bpri-
      mo="22588" bnettotrans="9889" bsamle-
      taendring="112" bultimo="32589" rnet-
      to="1655" />
  </NED>
  _ <UDL>
    <data land="BE" denomvaluta="EUR" bpri-
      mo="50218" bnettotrans="0" bsamle-
      taendring="0" bultimo="50218" rnetto="500"
      />
  </UDL>
  _ <TAN>
    <data land="NL" denomvaluta="EUR" bpri-
      mo="610" bnettotrans="115" bsamle-
      taendring="0" bultimo="725" rnetto="0" />
  </TAN>
</ALI_LALA>
_ <ALI_OVLA>
  _ <OPA>
    <data land="IT" denomvaluta="EUR" bpri-
      mo="6952" bnettotrans="1613" bsamle-
      taendring="-2" bultimo="8563" rnetto="388"
      />
  </OPA>
  _ <NED>

```

```
<data land="SE" denomvaluta="SEK" bprimo="11235" bnettotrans="-10491" bsamletaendring="476" bultimo="1220" rnetto="312" />
```

```
</NED>
```

```
= <UDL>
```

```
<data land="NO" denomvaluta="NOK" bprimo="5000" bsamletaendring="0" bultimo="5000" rnetto="0" />
```

```
</UDL>
```

```
= <TAN>
```

```
<data land="DE" denomvaluta="EUR" bprimo="50218" bnettotrans="0" bsamletaendring="0" bultimo="50218" rnetto="-500" />
```

```
</TAN>
```

```
</ALI_OVLA>
```

```
= <DEV_OPPR>
```

```
= <OPK>
```

```
<data land="US" bprimo="-1000" bnettotrans="50" bultimo="1000" />
```

```
</OPK>
```

```
= <OPS>
```

```
<data land="AU" bprimo="2000" bnettotrans="100" bultimo="2000" />
```

```
</OPS>
```

```
</DEV_OPPR>
```

```
= <DEV_OPFU>
```

```
= <OPF>
```

```
<data land="CA" bnettotrans="100" />
```

```
</OPF>
```

```
</DEV_OPFU>
```

```
= <DEV_OTCX>
```

```

- <OTC>
  <data land="US" bnettotrans="1000" />
</OTC>
</DEV_OTCX>
- <PPF_AKEJ>
  - <DUD>
    <data land="NO" bnedgang="255000" bstigning="0" udbytte="2000" />
  </DUD>
  - <AUD>
    <data land="SE" bprimo="445959" bnedgang="0" bstigning="2856" bvalutaendring="-18823" bprisaendring="31332" bultimo="461324" udbytte="1258" />
  </AUD>
</PPF_AKEJ>
- <PLI_HAKO>
  - <NED>
    <data denomvaluta="EUR" bprimo="1000" bultimo="2000" rnetto="100" />
  </NED>
  - <OPA>
    <data denomvaluta="SEK" bprimo="2000" bultimo="3000" rnetto="200" />
  </OPA>
  - <TAN>
    <data denomvaluta="NOK" bprimo="3000" bultimo="4000" rnetto="300" />
  </TAN>
</PLI_HAKO>
- <PLI_LAKO>
  - <NED>

```

```
<data land="DE" denomvaluta="EUR" bpri-
  mo="11253" bnettotrans="-10491" bsamle-
  taendring="476" bultimo="1238" rnet-
  to="985" />
```

```
</NED>
```

```
- <OPA>
```

```
<data land="AU" denomvaluta="AUD" bpri-
  mo="11253" bnettotrans="-10491" bsamle-
  taendring="476" bultimo="1238" rnet-
  to="321" />
```

```
</OPA>
```

```
- <UDL>
```

```
<data land="NZ" denomvaluta="NZD" bpri-
  mo="50218" bsamletaendring="0" bulti-
  mo="50218" rnetto="-1225" />
```

```
</UDL>
```

```
- <TAN>
```

```
<data land="CA" denomvaluta="CAD" bpri-
  mo="10000" bnettotrans="4944" bsamle-
  taendring="56" bultimo="15000" rnet-
  to="625" />
```

```
</TAN>
```

```
</PLI_LAKO>
```

```
- <PLI_OVKO>
```

```
- <NED>
```

```
<data land="SE" denomvaluta="SEK" bpri-
  mo="6952" bnettotrans="1613" bsamle-
  taendring="-2" bultimo="8563" rnetto="288"
  />
```

```
</NED>
```

```
- <OPA>
```

```
<data land="NO" denomvaluta="NOK" bpri-
  mo="11253" bnettotrans="-10491" bsamle-
  taendring="476" bultimo="1238" rnet-
  to="321" />
```

```

</OPA>
- <UDL>
  <data land="DE" denomvaluta="EUR" bprimo="50218" bsamletaendring="0" bultimo="50218" rnetto="2511" />
</UDL>
- <TAN>
  <data land="GB" denomvaluta="GBP" bprimo="10000" bnettotrans="4944" bsamletaendring="56" bultimo="15000" rnetto="-4000" />
</TAN>
</PLI_OVKO>
- <PLI_HALA>
  - <NED>
    <data denomvaluta="EUR" bprimo="500" bultimo="1000" rnetto="10" />
  </NED>
  - <OPA>
    <data denomvaluta="USD" bprimo="200" bultimo="500" rnetto="20" />
  </OPA>
  - <TAN>
    <data denomvaluta="SEK" bprimo="100" bultimo="200" rnetto="30" />
  </TAN>
</PLI_HALA>
- <PLI_FILA>
  - <NED>
    <data land="SE" denomvaluta="SEK" bprimo="6952" bnettotrans="1613" bsamletaendring="-2" bultimo="8563" rnetto="388" />

```

</NED>

⌚ <OPA>

<data land="NO" denomvaluta="NOK" bpri-  
mo="11253" bnettotrans="-10491" bsamle-  
taendring="476" bultimo="1238" rnet-  
to="312" />

</OPA>

⌚ <UDL>

<data land="CH" denomvaluta="CHF" bpri-  
mo="50000" bsamletaendring="0" bulti-  
mo="50000" rnetto="300" />

</UDL>

⌚ <TAN>

<data land="IT" denomvaluta="EUR" bpri-  
mo="610" bnettotrans="115" bsamle-  
taendring="0" bultimo="725" rnetto="0" />

</TAN>

</PLI\_FILA>

⌚ <PLI\_LALA>

⌚ <NED>

<data land="US" denomvaluta="USD" bpri-  
mo="6952" bnettotrans="1613" bsamle-  
taendring="-2" bultimo="8563" rnetto="288"  
/>

</NED>

⌚ <OPA>

<data land="CZ" denomvaluta="EUR" bpri-  
mo="11253" bnettotrans="-10491" bsamle-  
taendring="476" bultimo="1238" rnet-  
to="321" />

</OPA>

⌚ <UDL>

<data land="NZ" denomvaluta="NZD" bpri-  
mo="50218" bsamletaendring="0" bulti-  
mo="50218" rnetto="2511" />

```

</UDL>
- <TAN>
  <data land="AU" denomvaluta="AUD" bpri-
    mo="10000" bnettotrans="4944" bsamle-
    taendring="56" bultimo="15000" rnet-
    to="625" />
</TAN>
</PLI_LALA>
- <PLI_OVLA>
  - <NED>
    <data land="DE" denomvaluta="EUR" bpri-
      mo="6952" bnettotrans="1613" bsamle-
      taendring="-2" bultimo="8563" rnetto="288"
      />
    </NED>
  - <OPA>
    <data land="FR" denomvaluta="EUR" bpri-
      mo="11253" bnettotrans="-10491" bsamle-
      taendring="476" bultimo="1238" rnet-
      to="321" />
    </OPA>
  - <UDL>
    <data land="ES" denomvaluta="EUR" bpri-
      mo="50218" bsamletaendring="0" bulti-
      mo="50218" rnetto="2511" />
    </UDL>
  - <TAN>
    <data land="PT" denomvaluta="EUR" bpri-
      mo="10000" bnettotrans="4944" bsamle-
      taendring="56" bultimo="15000" rnetto="-
      654" />
    </TAN>
  </PLI_OVLA>
- <SIK_AFMO>

```

```

- <FIS>
  <data isin="SE0001065137" smodpart-
    land="DE" bprimo="2000" bultimo="4000" />
</FIS>
- <FEJ>
  <data smodpartland="DE" land="US" denomvalu-
    ta="EUR" sektor="1212" bprimo="2000" bul-
    timo="3000" />
</FEJ>
- <TIS>
  <data isin="SE0001065137" smodpart-
    land="FR" bprimo="3000" bultimo="0" />
</TIS>
- <TEJ>
  <data smodpartland="FR" land="BE" denomvalu-
    ta="EUR" sektor="1100" bprimo="4000" bul-
    timo="4500" />
</TEJ>
</SIK_AFMO>
- <PFH_LIPE>
  - <HEN>
    <data bultimo="1000" />
  </HEN>
  - <GEN>
    <data bultimo="2000" />
  </GEN>
</PFH_LIPE>
- <PFH_SKER>
  - <HEN>
    <data bultimo="4000" />
  </HEN>
  - <GEN>

```

<data bultimo="5238" />

</GEN>

</PFH\_SKER>

</BOP>