

SDMX SUBMISSIONS USING GLOBAL DSDs

I. PURPOSE OF DOCUMENT

This document shows the step by step process on how to use the ICS to submit SDMX data that conforms to the SDMX and Global DSD standards.

II. SUBMISSION REQUIREMENTS

DATAFLOWS / DATASET ID:

	DOMAINS	DATA FLOW ID	FREQ	ICS REPORT	NAMESPACE
1	BOP / IIP	BPM6_BOP_Q	Quarterly	BP6	urn:sdmx:org.sdmx.infomodel.datastructure.dataStructure=IMF:BOP(1.2):compact
		IMF_BPM6_BOP_Q	Quarterly		
2	CPIS	BPM6_CPIS_A	Annual	CP6	
		BPM6_CPIS_S	Semi Annual		
3	Reserves Template	BPM6_RA_M	Monthly	RT6	
4	CDIS	IMF_CDIS_A	Annual	CDIS	
		CDIS	Annual		
5	SEFER	BPM6_CPIS_Q	Quarterly	SEFER6	urn:sdmx:org.sdmx.infomodel.datastructure.dataStructure=IMF:BOP(1.0):compact

Table 1: Data Flows / Dataset ID

SDMX DATA FILE:

1. SDMX 2.0 Compact version (no support for GESMES-TS/EDI)
2. SDMX 2.1 Structure Specific Data
3. "DATASETID" identifying the Dataflow of the submission. Refer table above.

Submissions Checklist

Y/N	Checklist
	XML Message is well formed
	SDMX conformance with schema specification of SDMX 2.0 or 2.1 – full validation is performed
	Dataflow ID in the submission should be one of the allowed IDs listed in the table 1
	Mandatory message headers are present
	Header messages are in correct sequence according to the schema
	Correct SDMX Namespace corresponding to the domain are present
	Latest version of data structure and code list is used
	Observation time period format is in correct format with respect to its frequency
	Time Format is optional attribute, if choose to include, it should conform to SDMX code list, and consistent with the frequency in the data flow.

Table 2: SDMX Submissions Checklist

FREQUENTLY ENCOUNTERED ISSUES

1. Incorrect namespace. The correct ones should be as shown in Table 1 above
2. SDMX uses BOP version 1.1. The SDMX should use the BOP version 1.2
3. Submitted file is in GESMES format. GESMES format is not supported.
4. SDMX file does not contain the DATASETID. Every SDMX submission should identify the dataflow through the DATASETID.
5. OBS element is not prefixed with namespace. This is a validation error. The namespace prefixes were found to be missing for some of the XML elements.

TIME PERIOD FORMAT

Time period format for each observation should follow “PeriodType” defined in SDMX Common schemas. Quarterly: Q1, Q2, Q3, Q4; Weekly: W1 - W52; Triannual: T1, T2, T3; Biannual: B1, B2. These values should appear after a four-digit year indicator, followed by a dash. For example,

1. Annual, 2016;
2. Quarterly, 2016-Q1;
3. Monthly, 2016-M1;
4. Daily, 2016-01-01;

TIME_FORMAT ATTRIBUTE

For TIME_FORMAT attribute, standard SDMX CL_TIME_FORMAT code list should be used, i.e., P1Y (Annual), P6M (Semi-Annual), P3M (Quarterly), P1M (Monthly), P1D (Daily) and should be consistent with the frequency value in the message.

III. EXAMPLES

BOP6 SDMX (Quarterly):

```
<?xml version="1.0" encoding="utf-8"?>
<CompactData xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"
xmlns:bop="urn:sdmx:org.sdmx.infomodel.datastructure.DataStructure=IMF:BOP(1.2):compact"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message
schemas/SDMXMessage.xsd
urn:sdmx:org.sdmx.infomodel.datastructure.DataStructure=IMF:BOP(1.2):compact
schemas/IMF_BOP_Compact.xsd">
  <Header>
    <ID>IREF010695</ID>
    <Test>>false</Test>
    <Name>list QIIP</Name>
    <Prepared>2014-06-26T16:58:00+02:00</Prepared>
    <Sender id="AT2">
      <Contact>
        <Name>XYZ</Name>
        <Department>EDP</Department>
        <Role>Responsible for Data Processing</Role>
        <Telephone>0000-0-0000-0000</Telephone>
        <Fax>0000-0-0000-0000</Fax>
      </Contact>
    </Sender>
    <Receiver id="4F0"/>
    <KeyFamilyRef>BOP</KeyFamilyRef>
    <KeyFamilyAgency>IMF</KeyFamilyAgency>
    <DataSetID>BPM6_BOP_Q</DataSetID>
    <Extracted>2014-06-26T16:58:00+02:00</Extracted>
  </Header>
  <bop:DataSet>
    <bop:Series FREQ="Q" UNIT_MULT="6" ADJUSTMENT="N" REF_AREA="AT"
COUNTERPART_AREA="W1" REF_SECTOR="S1" COUNTERPART_SECTOR="S1"
FLOW_STOCK_ENTRY="LE" ACCOUNTING_ENTRY="N" INT_ACC_ITEM="FA" FUNCTIONAL_CAT="_T"
INSTR_ASSET="F" MATURITY="_Z" UNIT_MEASURE="EUR" CURRENCY_DENOM="_T"
VALUATION="_X" COMP_METHOD="N" TIME_FORMAT="P3M">
      <bop:Obs TIME_PERIOD="2014-Q1" OBS_VALUE="-2961"
OBS_STATUS="A" CONF_STATUS="F"/>
    </bop:Series>
    <bop:Series FREQ="Q" ADJUSTMENT="N" REF_AREA="AT"
COUNTERPART_AREA="W1" REF_SECTOR="S1" COUNTERPART_SECTOR="S1"
FLOW_STOCK_ENTRY="LE" ACCOUNTING_ENTRY="A" INT_ACC_ITEM="FA" FUNCTIONAL_CAT="_T"
INSTR_ASSET="F" MATURITY="_Z" UNIT_MEASURE="EUR" CURRENCY_DENOM="_T"
VALUATION="_X" COMP_METHOD="N" TIME_FORMAT="P3M">
      <bop:Obs TIME_PERIOD="2014-Q1" OBS_VALUE="865865"
OBS_STATUS="A" CONF_STATUS="F"/>
    </bop:Series>
  </bop:DataSet>
</CompactData>
```

CDIS SDMX (Annual)

```
<?xml version="1.0" encoding="UTF-8"?>
<CompactData
  xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"
  xmlns:fdi="urn:sdmx:org.sdmx.infomodel.datastructure.DataStructure=OECD:FDI
(1.2):compact"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/messa
ge SDMXMessage.xsd
```

```

urn:sdmx:org.sdmx.infomodel.datastructure.DataStructure=OECD:FDI(1.2):compact
OECD_FDI1_2_DSD_SDMX20.xsd">
  <Header>
    <ID>IREF000001</ID>
    <Test>false</Test>
    <Name xml:lang="en">CDIS</Name>
    <Prepared>2014-01-10T17:00:00-00:00</Prepared>
    <Sender id="SE2">
      <Name xml:lang="en">XYZ</Name>
      <Contact>
        <Name xml:lang="en">Name</Name>
        <Department xml:lang="en">Economic
        Statistics</Department>
        <Email>Email</Email>
      </Contact>
    </Sender>
    <DataSetID>IMF_CDIS_A</DataSetID>
    <DataSetAction>Replace</DataSetAction>
  </Header>
  <fdi:DataSet>
    <fdi:Series FREQ="A" MEASURE_PRINCIPLE="DO" REF_AREA="SE"
    COUNTERPART_AREA="AD" REF_SECTOR="S1" LEVEL_COUNTERPART="IMC"
    FLOW_STOCK_ENTRY="LE" ACCOUNTING_ENTRY="A" INT_ACC_ITEM="FA"
    FUNCTIONAL_CAT="U2" INSTR_ASSET="F" TYPE_ENTITY="ALL"
    UNIT_MEASURE="SEK" FDI_RELATIONSHIP="I" VALUATION="_X"
    STAT_UNIT="_X" ACTIVITY="T" ACTIVITY_ALLOC="_Z" UNIT_MULT="6"
    DECIMALS="0">
      <fdi:Obs TIME_PERIOD="2013" OBS_VALUE="0" OBS_STATUS="A"
      CONF_STATUS="F"/>
    </fdi:Series>
  </fdi:DataSet>
</CompactData>

```

Reserves Template SDMX (Monthly)

```

<?xml version="1.0" encoding="UTF-8"?>
<CompactData xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:bop="urn:sdmx:org.sdmx.infomodel.datastructure.DataStructure=IMF:BOP(1.2):compact"
xsi:schemaLocation="urn:sdmx:org.sdmx.infomodel.datastructure.DataStructure=IMF:BOP(1.2):compact">
  <Header>
    <ID>IREF178620</ID>
    <Test>false</Test>
    <Name>BPM6_RA_M Total reserve assets</Name>
    <Prepared>2014-10-30T18:30:00+01:00</Prepared>
    <Sender id="4F0"/>
    <Receiver id="1C0"/>
    <KeyFamilyRef>BOP</KeyFamilyRef>
    <KeyFamilyAgency>IMF</KeyFamilyAgency>
    <DataSetID>BPM6_RA_M</DataSetID>
    <Extracted>2014-10-30T18:30:00+01:00</Extracted>
  </Header>
  <bop:DataSet action="Replace" >
    <bop:Series FREQ="M" ADJUSTMENT="N" REF_AREA="4F"
    COUNTERPART_AREA="1C" REF_SECTOR="S121" COUNTERPART_SECTOR="S121"
    FLOW_STOCK_ENTRY="FC" ACCOUNTING_ENTRY="FI" INT_ACC_ITEM="RT1" FUNCTIONAL_CAT="RT"
    INSTR_ASSET="F41A" MATURITY="TM13" UNIT_MEASURE="EUR" CURRENCY_DENOM="X1"
    VALUATION="N" COMP_METHOD="N" TIME_FORMAT="P1M" DECIMALS="0" TIME_PER_COLLECT="S"
    UNIT_MULT="6">
      <bop:Obs TIME_PERIOD="2013-01" OBS_VALUE="18" OBS_STATUS="L"

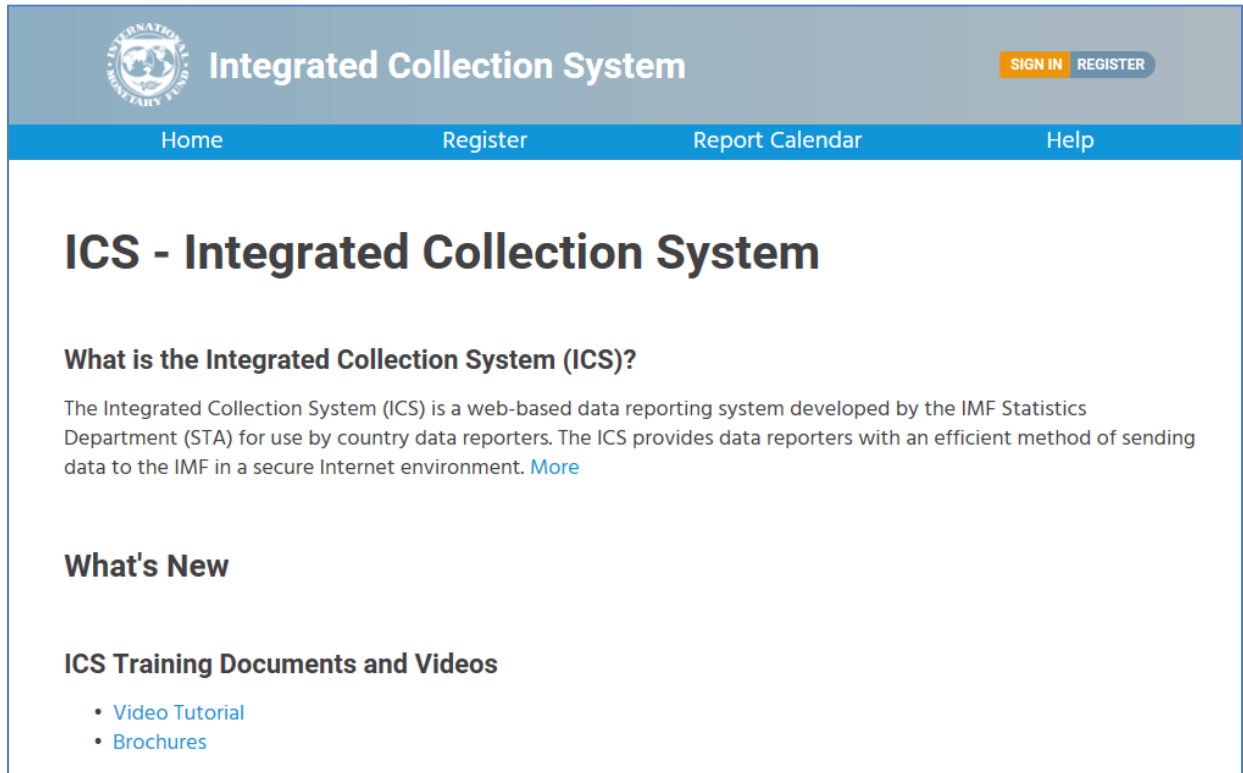
```

```
CONF_STATUS="F"/>
<bop:Obs TIME_PERIOD="2013-02" OBS_VALUE="18" OBS_STATUS="L"
CONF_STATUS="F"/>
</bop:Series>
</bop:DataSet>
</CompactData>
```

IV. STEPS TO UPLOAD SDMX DATA

1. Login to ICS

Login to ICS application through URL => <https://www-ics.imf.org/>



The screenshot shows the homepage of the Integrated Collection System (ICS). At the top left is the IMF logo, followed by the text "Integrated Collection System". To the right are "SIGN IN" and "REGISTER" buttons. Below this is a navigation bar with "Home", "Register", "Report Calendar", and "Help". The main content area features a large heading "ICS - Integrated Collection System", a sub-heading "What is the Integrated Collection System (ICS)?", a paragraph describing the system, a "What's New" section, and an "ICS Training Documents and Videos" section with links to "Video Tutorial" and "Brochures".

Integrated Collection System

[SIGN IN](#) [REGISTER](#)

[Home](#) [Register](#) [Report Calendar](#) [Help](#)

ICS - Integrated Collection System

What is the Integrated Collection System (ICS)?

The Integrated Collection System (ICS) is a web-based data reporting system developed by the IMF Statistics Department (STA) for use by country data reporters. The ICS provides data reporters with an efficient method of sending data to the IMF in a secure Internet environment. [More](#)

What's New

ICS Training Documents and Videos

- [Video Tutorial](#)
- [Brochures](#)

2. Navigate to corresponding Data Domain and set the Reporting Preferences as Global SDMX-ML.

The screenshot displays a web application interface with the following elements:

- Header:** "Home" on the left and a user profile icon on the right.
- Sub-headers:** "My Data Domains" and "Reporting Country: Austria" with the Austrian flag.
- Section:** "External Sector" in a dark blue bar.
- Table:** A table with three columns: "Data Domains", "Reporting Actions", and "Reporting Preferences".

Data Domains	Reporting Actions	Reporting Preferences
Balance of Payments (BPM5)	Upload Download Metadata	Excel Reports
Balance of Payments (BPM6)	Upload Metadata	Global SDMX-ML (dropdown menu open)
Coordinated Direct Investment Survey	Upload Download Metadata	Excel Reports
Coordinated Portfolio Investment Survey	Upload Download Metadata	Excel Reports
- Dropdown Menu:** Opened for "Global SDMX-ML" in the "Reporting Preferences" column of the "Balance of Payments (BPM6)" row. The menu lists "Reports" (with "Excel Reports" and "SDMX" sub-items) and "Global SDMX-ML" (which is selected and highlighted in dark blue).

3. Select Upload button corresponding to the data domain.

The screenshot shows a web application interface with the following elements:

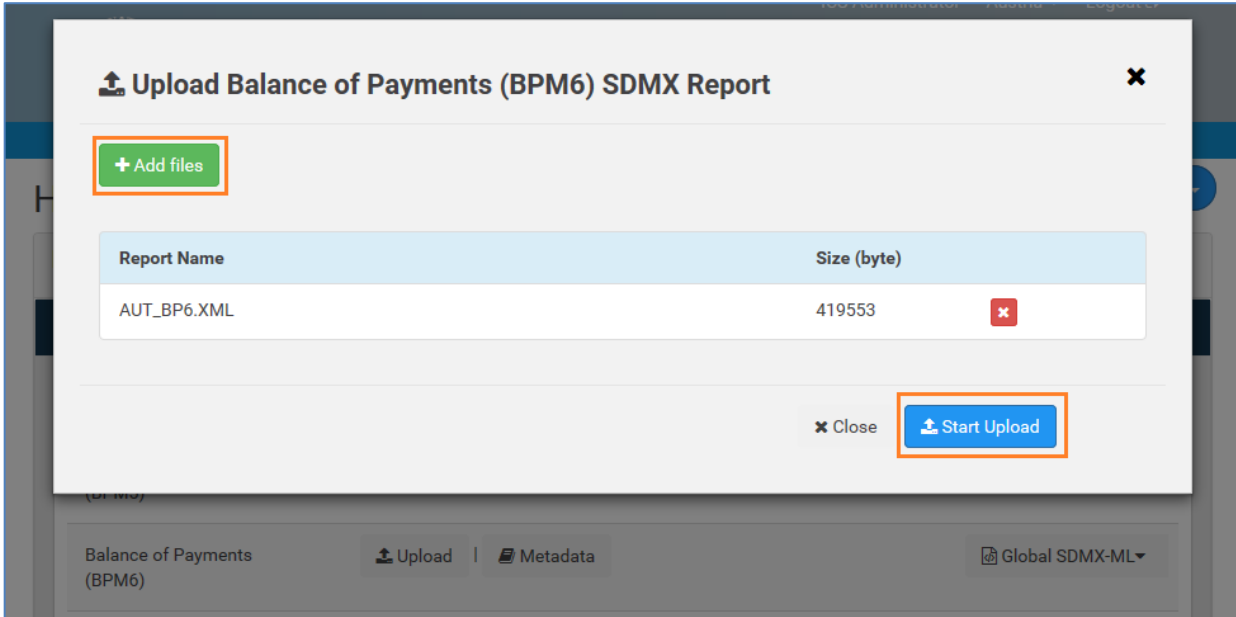
- Header:** "Home" on the left and a user profile icon on the right.
- Sub-Header:** "My Data Domains" on the left and "Reporting Country: Austria" with the Austrian flag on the right.
- Section Header:** "External Sector" in a dark blue bar.
- Main Content:** A table with three columns: "Data Domains", "Reporting Actions", and "Reporting Preferences".

Data Domains	Reporting Actions	Reporting Preferences
Balance of Payments (BPM5)	Upload Download Metadata	Excel Reports ▼
Balance of Payments (BPM6)	Upload Metadata	Global SDMX-ML ▼

The "Upload" button for the "Balance of Payments (BPM6)" data domain is highlighted with an orange border.

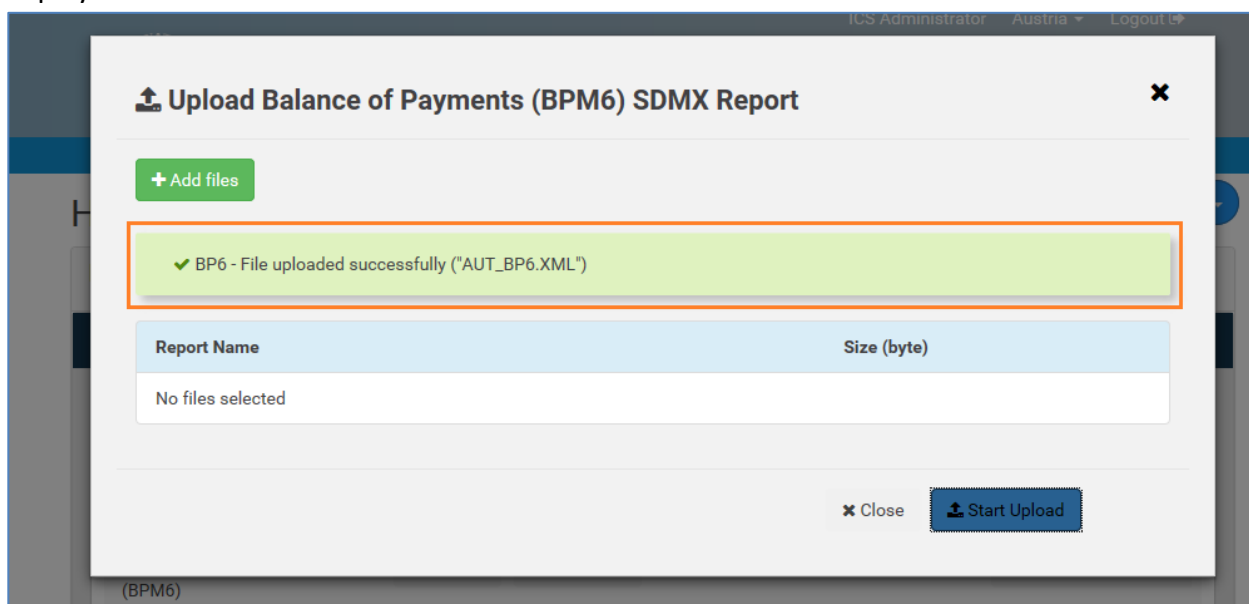
4. Attach SDMX File and Upload

Add the SDMX File using Add Files and then select Start Upload button for uploading the document.



5. Confirm Successful Upload

Upon successful upload of the SDMX file, a confirmation message will be displayed as shown below. If the upload was not successful, appropriate error messages will be displayed.



For support related questions please contact
ICSINQUIRY@imf.org