

XML format definition for the RES 35 submission

A. Structure of the RES 35 submission

A RES 35 submission is built with the following tree structure:

- Satellite system information
 - Launch information (for each satellite system)
 - Space station characteristics (for each launch)
 - Frequency characteristics (for each space station)

A submission must contain at least one launch, with one space station and with one set of frequency band.

B. Definition of the fields

Res35_notice = RES 35 satellite system information

- sat_name: name of the satellite system. A notification submission under Art. 11 for this satellite system should have already been sent to the Bureau.
- Ms_step: RES 35 milestone indicator:
 - M0 = initial deployment information under Resolve 2 and 3
 - M1= 1st milestone, deployment information under Resolve 7.a and 8.a
 - M2= 2nd milestone, deployment information under Resolve 7.b and 8.b
 - M3= 3rd milestone, deployment information under Resolve 7.c and 8.c

Res35_launch = RES 35 launch information

- Lsp_name: name of the launch vehicle provider
- Vehicle: name of the launch vehicle
- d_launch: date of the launch
- Facility: name of the launch facility

Per launch: Res35_sp_stn = RES 35 space station characteristics

- Orb_id: orbital plane number indicated in the latest notification information
- Sp_stn_name: name of the space station
- Apog_km: orbital characteristics of the space station (altitude of the apogee in kilometers)
- Perig_km: orbital characteristics of the space station (altitude of the perigee in kilometers)
- Incl_ang: orbital characteristics of the space station (inclination in degrees)
- Perig_arg: orbital characteristics of the space station (argument of the perigee in degrees)

Per space station: Res35_freq = RES 35 space station frequency characteristics

- Freq_min: lower bound of the frequency range for the space station transmit or receive frequency range
- Freq_max: upper bound of the frequency range for the space station transmit or receive frequency range

C. RES 35 XML file

```

<res35_notice>
  <sat_name></sat_name>
  <ms_step></ms_step>
  <res35_launch>
    <lsp_name></lsp_name>
    <vehicle></vehicle>
    <d_launch></d_launch>
    <facility></facility>
    <res35_sp_stn>
      <orb_id></orb_id>
      <sp_stn_name></sp_stn_name>
      <apog_km></apog_km>
      <perig_km></perig_km>
      <incl_ang></incl_ang>
      <perig_arg></perig_arg>
      <res35_freq>
        <freq_min></freq_min>
        <freq_max></freq_max>
      </res35_freq>
    </res35_sp_stn>
  </res35_launch>
</res35_notice>

```

D. XSD schema

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="res35_notice_schema" xmlns=""
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xs:documentation xml:Lang="en">
      RES35 Notice schema for RES908 Application
    </xs:documentation>
  </xsd:annotation>

  <xs:simpleType name="ItuDateType">
    <xs:restriction base="xs:string">
      <xs:pattern value="(0[1-9]|[12][0-9]|3[01]).(0[1-9]|1[012]).\d{4}"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="Milestone">
    <xs:restriction base="xs:string">
      <xs:pattern value="\s*|[M][0-3]"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="LimitedStringTo30">

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    <xs:restriction base="xs:string">
      <xs:maxLength value="30"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="LimitedStringTo20">
    <xs:restriction base="xs:string">
      <xs:maxLength value="20"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="LimitedStringTo3">
    <xs:restriction base="xs:string">
      <xs:maxLength value="3"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:element name="res35_notice">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="sat_name" type="LimitedStringTo30"/>
        <xs:element name="adm" type="LimitedStringTo3" minOccurs="0"/>
        <xs:element name="ntwk_org" type="LimitedStringTo3"
minOccurs="0"/>
        <xs:element name="ms_step" type="Milestone"/>
        <xs:element name="res35_launch" minOccurs="0"
maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="lsp_name"
type="LimitedStringTo20"/>
              <xs:element name="vehicle"
type="LimitedStringTo20"/>
              <xs:element name="d_launch" type="ItuDateType"/>
              <xs:element name="facility"
type="LimitedStringTo20"/>
              <xs:element name="res35_sp_stn" minOccurs="0"
maxOccurs="unbounded">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="orb_id"
type="xs:integer"/>
                    <xs:element name="sp_stn_name"
type="LimitedStringTo30"/>
                    <xs:element name="apog_km"
type="xs:decimal"/>
                    <xs:element name="perig_km"
type="xs:decimal"/>
                    <xs:element name="incl_ang"
type="xs:decimal"/>
                    <xs:element name="perig_arg"
type="xs:decimal"/>

```

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                                <xs:element name="res35_freq"
minOccurs="0" maxOccurs="unbounded">
                                <xs:complexType>
                                    <xs:sequence>
                                        <xs:element
name="freq_min" type="xs:decimal" minOccurs="0"/>
                                        <xs:element
name="freq_max" type="xs:decimal" minOccurs="0"/>
                                    </xs:sequence>
                                </xs:complexType>
                                </xs:element>
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="res35_notice_schema" msdata:IsDataSet="true"
msdata:UseCurrentLocale="true">
    <xs:complexType>
        <xs:choice>
            <xs:element ref="res35_notice"/>
        </xs:choice>
    </xs:complexType>
</xs:element>
</xs:schema>

```

E. Example of a completed RES 35 XML file

```

<res35_notice>
  <sat_name>OSCAR-8</sat_name>
  <ms_step>M0</ms_step>
  <res35_launch>
    <lsp_name>Provider</lsp_name>
    <vehicle>Vehicle#1</vehicle>
    <d_launch>12.04.2020</d_launch>
    <facility>CAPE CANAVERAL</facility>
  </res35_launch>
  <res35_sp_stn>
    <orb_id>23</orb_id>
    <sp_stn_name>Station #1</sp_stn_name>
    <apog_km>800</apog_km>
    <perig_km>12000</perig_km>
    <incl_ang>54</incl_ang>
    <perig_arg>23</perig_arg>
    <res35_freq>
      <freq_min>11700</freq_min>
      <freq_max>12500</freq_max>
    </res35_freq>
  </res35_sp_stn>
</res35_notice>

```

Resolution 35 – Guide to create an XML file to submit information (V1.0)

```
<res35_sp_stn>
  <orb_id>23</orb_id>
  <sp_stn_name>Station #2</sp_stn_name>
  <apog_km>800</apog_km>
  <perig_km>12000</perig_km>
  <incl_ang>54</incl_ang>
  <perig_arg>23</perig_arg>
  <res35_freq>
    <freq_min>11700</freq_min>
    <freq_max>12500</freq_max>
  </res35_freq>
</res35_sp_stn>
</res35_launch>
<res35_launch>
  <lsp_name>Provider #2</lsp_name>
  <vehicle>Vehicle #2</vehicle>
  <d_launch>12.05.2020</d_launch>
  <facility>EDWARDS</facility>
  <res35_sp_stn>
    <orb_id>21</orb_id>
    <sp_stn_name>Station #3</sp_stn_name>
    <apog_km>234</apog_km>
    <perig_km>127</perig_km>
    <incl_ang>23</incl_ang>
    <perig_arg>63</perig_arg>
    <res35_freq>
      <freq_min>11700</freq_min>
      <freq_max>12500</freq_max>
    </res35_freq>
  </res35_sp_stn>
  <res35_sp_stn>
    <orb_id>21</orb_id>
    <sp_stn_name>Station #4</sp_stn_name>
    <apog_km>234</apog_km>
    <perig_km>127</perig_km>
    <incl_ang>23</incl_ang>
    <perig_arg>63</perig_arg>
    <res35_freq>
      <freq_min>11700</freq_min>
      <freq_max>12500</freq_max>
    </res35_freq>
  </res35_sp_stn>
</res35_launch>
</res35_notice>
```