

**AERONAUTICAL CHARTING MEETING**  
**Charting Group**  
**Meeting – April 27 - 29, 2021**

**RECOMMENDATION DOCUMENT**

**FAA Control #21-01-358**

**Subject:** Improvement to d-CS XML

**Background/Discussion:**

The bulk of the Chart Supplement is for airport facility directory information (AF/D), but the Special Notices section of the Chart Supplement includes visual departure and noise abatement procedures. However, the metadata for the digital-Chart Supplement (d-CS) only contains information for the AF/D per airport, and it only gives the filename of the first page per airport. For example, San Francisco International Airport (KSFO) has two AF/D pages (SW\_213\_25FEB2021.pdf and SW\_214\_25FEB2021.pdf), but only SW\_213\_25FEB2021.pdf is listed in the XML.

The d-CS XML also contains no metadata included for the “front” or “back” sections per volume, even though the back section contains some pages that are applicable to a specific airport. For example, SW\_rear\_25FEB2021.pdf pages 20-22 are noise abatement procedures for San Francisco International Airport (KSFO). Similarly, SW\_rear\_25FEB2021.pdf page 25 is a special procedure COZY ONE VFR DEPARTURE for Aspen-Pitkin County/Sardy Field (KASE).

Excerpt from the current d-CS XML for KSFO and KASE:

```
...
<location state="CALIFORNIA">
...
  <airport>
    <aptname>SAN FRANCISCO INTL</aptname>
    <aptcity>SAN FRANCISCO</aptcity>
    <aptid>SFO</aptid>
    <navidname></navidname>
    <pdf>sw_213_25FEB2021.pdf</pdf>
  </airport>
...
</location>
<location state="COLORADO">
...
  <airport>
    <aptname>ASPEN&#x#FFFD;PITKIN CO/SARDY FLD</aptname>
    <aptcity>ASPEN</aptcity>
    <aptid>ASE</aptid>
    <navidname></navidname>
    <pdf>sw_254_25FEB2021.pdf</pdf>
  </airport>
...
...
```

**Recommendations:**

Expand the d-CS XML to include 1) metadata for every page of the d-CS as well as 2) a name and type identifier for the content of the page.

Excerpt from the proposed d-CS XML, in the style of the digital-Terminal Procedure Publication XML, for KSFO and KASE:

```
...
<state_code ID="CA" state_fullname="California">
  ...
  <city_name ID="SAN FRANCISCO" volume="SW">
    <airport_name ID="SAN FRANCISCO INTL" alnum="375" apt_ident="SFO" icao_ident="KSFO" military="N">
      <record>
        <chart_code>INFO</chart_code>
        <chart_name>AIRPORT FACILITY DIRECTORY</chart_name>
        <pdf>sw_213_25FEB2021.pdf</pdf>
      </record>
      <record>
        <chart_code>INFO</chart_code>
        <chart_name>AIRPORT FACILITY DIRECTORY CONT.1</chart_name>
        <pdf>sw_214_25FEB2021.pdf</pdf>
      </record>
      <record>
        <chart_code>INFO</chart_code>
        <chart_name>NOISE ABATEMENT PROCEDURES</chart_name>
        <pdf>sw_20_25FEB2021.pdf</pdf>
      </record>
      <record>
        <chart_code>INFO</chart_code>
        <chart_name>NOISE ABATEMENT PROCEDURES CONT.1</chart_name>
        <pdf>sw_21_25FEB2021.pdf</pdf>
      </record>
      <record>
        <chart_code>INFO</chart_code>
        <chart_name>NOISE ABATEMENT PROCEDURES CONT.2</chart_name>
        <pdf>sw_22_25FEB2021.pdf</pdf>
      </record>
    </airport_name>
  </city_name>
  ...
</state_code>
<state_code ID="CO" state_fullname="Colorado">
  ...
  <city_name ID="ASPEN" volume="SW">
    <airport_name ID="ASPEN-PITKIN COUNTY/SARDY FIELD" alnum="5889" apt_ident="ASE" icao_ident="KASE" military="N">
      <record>
        <chart_code>INFO</chart_code>
        <chart_name>AIRPORT FACILITY DIRECTORY</chart_name>
        <pdf>sw_254_25FEB2021.pdf</pdf>
      </record>
      <record>
        <chart_code>DP</chart_code>
        <chart_name>COZY ONE VFR</chart_name>
        <pdf>sw_25_25FEB2021.pdf</pdf>
      </record>
    </airport_name>
  ...

```

**Comments:**

None

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**Date:** April 1, 2021

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## **MEETING 21-01**

Andrew Lewis, Garmin, presented the new recommendation. He explained there is a large amount of information in the Chart Supplement Special Notices section that is not easily accessible in a digital format. The metadata for the digital Chart Supplement contains the airport facility directory (A/FD) data, but does not include metadata for the miscellaneous information back portion of the publication. The recommendation is to expand the digital Chart Supplement XML file to include (1) metadata for every page and (2) a name and type identifier for the content of the page.

Joshua Fenwick, Garmin, mentioned that the inability to discern what airport/facility information is included on a given page means they are not able to provide this information to their customers.

Valerie Watson, FAA/AJV-A250, confirmed that the addition of XML metadata tags is part of the Chart Supplement improvements that are already underway. She said Jeff Lamphier, FAA/AJV-A240, will address this specific topic as part of his regular Chart Supplement Modernization briefing. It was agreed to close this item.

**STATUS: CLOSED**