

Overlaying a PDS4 Bundle Onto a PDS3 Volume

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PDS Tech Session

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Assumptions

- Actual PDS3 data files do not need to be changed to be PDS4-compatible.
- We should avoid duplication of data files.
- One PDS3 volume = one PDS4 bundle. (Usually.)
- Each PDS4 label should include a reference to the PDS3 label for the product.
- PDS3 validation should ignore *.XML files.
- PDS4 validation should ignore (optionally?) files without XML labels.
 - For example, files in EXTRAS that are not being migrated to PDS4.

PDS3 Volume with PDS4 Elements Inserted

volume root

- | - aareadme.txt
- | - aareadme.xml
- | - voldesc.cat
- | - voldesc.xml
- | - errata.txt
- | - errata.xml
- | - bundle.xml
- |
- | - datadir1
 - | - collection_data1.xml
 - | - collection_data1.csv
 - | - datafileA.dat
 - | - datafileA.lbl
 - | - datafileA.xml
- ...

| - datadir2

- | - collection_data2.xml
- | - collection_data2.csv
- | - datafileB.dat
- | - datafileB.lbl
- | - datafileB.xml
- ...
- | - document
 - | - collection_document.xml
 - | - collection_document.csv
 - | - sis.pdf
 - | - sis.lbl
 - | - sis.xml
- | - index
 - ...

Referring to a PDS3 Label from a PDS4 Label

Susie's approach

```
<File_Area_Observational_Supplemental>

<File>
  <file_name>
    MWR02RI2016274110000_R02624_V01.LBL
  </file_name>
  <local_identifier>
    mwr02ri2016274110000_r02624_v01_pds3file
  </local_identifier>
  <creation_date_time>2017-05-21T10:02:17Z</creation_date_time>
  <file_size unit="byte">7933</file_size>
</File>

<Header>
  <name>PDS3 Label</name>
  <local_identifier>
    mwr02ri2016274110000_r02624_v01_pds3label
  </local_identifier>
  <offset unit="byte">0</offset>
  <object_length unit="byte">8797</object_length>
  <parsing_standard_id>PDS3</parsing_standard_id>
</Header>

</File_Area_Observational_Supplemental>
```

Lyle's approach

```
<File_Area_Observational_Supplemental>

<File>
  <file_name>
    MWR02RI2016274110000_R02624_V01.LBL
  </file_name>
  <local_identifier>
    mwr02ri2016274110000_r02624_v01_pds3file
  </local_identifier>
  <creation_date_time>2017-05-21T10:02:17Z</creation_date_time>
  <file_size unit="byte">7933</file_size>
</File>

<Stream_Text>
  <name>PDS3 Label</name>
  <local_identifier>
    mwr02ri2016274110000_r02624_v01_pds3file_stream
  </local_identifier>
  <offset unit="byte">0</offset>
  <object_length unit="byte">8797</object_length>
  <parsing_standard_id>7-Bit ASCII Text</parsing_standard_id>
  <record_delimiter>Carriage-Return Line-Feed</record_delimiter>
</Stream_Text>

</File_Area_Observational_Supplemental>
```