[PDS-500] Transcoder: Parenthesis in descriptions causes issues when reading PDS3 labels Created: 2017-05-04 Updated: 2018-07-26 Resolved: 2018-07-26			
Status:	Resolved		
Project:	PDS4 Software		
Component/s:	Preparation		
Affects Version/s:	None		
Fix Version/s:	9.0.0		

Type:	Bug	Priority:	Major			
Reporter:	Michael Cayanan	Assignee:	Steve Levoe			
Resolution:	Fixed	Votes:	0			
Labels:	None					
Remaining Estimate:	2 days	2 days				
Time Spent:	Not Specified					
Original Estimate:	2 days					

Attachments:	OPTE_12.LBL	OPTE_12_UPDATE.LBL	generic-pds3_to_pds4.vm
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Description

The example label, OPTE_12.LBL, attached to this ticket contains description fields that have the parenthesis characters in it. This appears to cause issues in the Transcoder when parsing the label. When trying to transform this into a PDS4 label using the Generate Tool, the resulting output is missing the data file name, offset, as well as the fields belonging to the table:

However, if I remove the parenthesis characters from each description field (line 27 and line 38 in the example label), the label is correctly parsed and as a result, the transformation is successful:

```
<File_Area_Observational>
   <File>
       <file_name>OPTE_12.DAT</file_name>
   </File>
   <Table_Binary>
       <offset unit="byte">0</offset>
       <records>173</records>
       <Record_Binary>
           <fields>5</fields>
            <groups>0</groups>
            <record_length unit="byte">36</record_length>
            <Field Binary>
                <name>spacecraft clock</name>
                <field location unit="byte">1</field location>
                <data_type>ASCII_String</data_type>
                <field_length unit="byte">16</field_length>
            </Field Binary>
            <Field Binary>
                <name>spacecraft event time</name>
                <field_location unit="byte">17</field_location>
                <data type>IEEE754MSBDouble</data type>
                <field_length unit="byte">8</field_length>
            //Fiold Dinary
```

The label, OPTE_12_UPDATE.LBL, is a modified version of the label with the parenthesis characters removed in order to generate a successful transformation.

Comments

<Identification_Area>

<version_id>1.0</version_id>

<pr

<title>go-j-mag-2-raw-data-v1.0 opte_12</title>

cproduct_class>Product_Observational/product_class>

<information_model_version>1.10.1.0</information_model_version>

Comment by Michael Cayanan [2018-07-26] Resolved with an updated version of the VicarlO library (version 4.2) \$./generate -p ~/test-data/generate/PDS-500/OPTE_12.LBL -t ~/test-data/generate/PDS-500/generic-pds3_to_pds4.vm New PDS4 Label: /Users/mcayanan/test-data/generate/PDS-500/OPTE_12.xml \$ more ~/test-data/generate/PDS-500/OPTE_12.xml <?xml version="1.0" encoding="UTF-8" standalone="no"?> <?xml-model href="https://pds.nasa.gov/pds4/pds/v1/PDS4_PDS_1A10.sch" schematypens="http://purl.colc.org/dsdl/schematron"?> <Product_Observational xmlns="http://pds.nasa.gov/pds4/pds/v1" xmlns:pds="http://pds.nasa.gov/pds4/pds/v1" xmlns:pds="http://pwww.w3.org/2001/XMLSchema-instance"

Generated at Thu Jul 26 12:41:37 PDT 2018 by Michael Cayanan using JIRA 7.7.1#77002-sha1:e75ca93d5574d9409c0630b81c894d9065296414.

<logical_identifier>urn:nasa:pds:data:go-j-mag-2-raw-data-v1.0:opte_12</logical_identifier>