

Update the formation rule for the keyword DATA_SET_LOCAL_ID to remove the reference to following the filename formation rule. Note: The formation rule appears in the online data dictionary but does not appear in the pdsdd.full file. In pdsdd.full formation rules are specified as part of the element descriptions. So the requested change is shown below by including the modified formation rule in the element description of DATA_SET_LOCAL_ID in pdsdd.full. This modified formation rule should be propagated to the online data dictionary.

Impact Assessment:

PDS Standards Reference: No impact

Archive Preparation Guide: No impact

Proposer's Archive Guide: No impact

Planetary Science Data Dictionary: Changes as described

PDS Tools: SCR 3-1144 highlighted the need to verify the length of the actual file name as well as the length of the value of the FILE_NAME keyword. Vtool does not check the length of the actual file name, nor does any other PDS tool currently in use. PDS software developers should be asked to update Vtool to check that the name of the file described by a PDS label does not exceed the maximum length specified in the definition of FILE_NAME.

PDS web site, product servers, profile servers: No impact

external agencies (e.g., NSSDC, ESA, IPDA): No impact

external interfaces (e.g., NSSDC, ADS): No impact

compliance/compatibility with ODL and ISO standards: No impact

Preliminary impact assessments by Simpson.

Additional Information:

None

Requested Changes:

The following changes need to be made to the Planetary Science Data Dictionary. Changes are shown in red.

```
PDS_VERSION_ID           = PDS3
LABEL_REVISION_NOTE      = "2009-07-02 RS:RAS Reduced maximum length
to 40 characters; updated basename length in description for consistency;
added formation rule."

OBJECT                    = ELEMENT_DEFINITION
  ELEMENT_NAME            = "file_name"
  BL_NAME                 = "filename"
  DESCRIPTION              = "
```

The file_name element provides the location independent name of a file. It excludes node or volume location, directory path names, and version specification. To promote portability across multiple platforms, PDS

requires the file_name to be limited to a 36-character basename, a full stop (. period), and a 3-character extension. Valid characters include capital letters A - Z, numerals 0 - 9, and the underscore character (_). See chapter 10 of the *PDS Standards Reference* for more details on naming files included in PDS archives."

```

GENERAL_DATA_TYPE           = "CHARACTER"
MAXIMUM                     = "N/A"
MINIMUM                     = "N/A"
MAXIMUM_LENGTH              = "40"
MINIMUM_LENGTH              = "N/A"
STANDARD_VALUE_TYPE         = "FORMATION"
STANDARD_VALUE_SET_DESC     = ""
KEYWORD_DEFAULT_VALUE      = ""
UNIT_ID                     = "none"
SOURCE_NAME                 = ""
FORMATION_RULE_DESC        = "The file_name is limited to a 36-
character basename, a full stop (. period), and a 3-character extension."
SYSTEM_CLASSIFICATION_ID    = "COMMON"
GENERAL_CLASSIFICATION_TYPE = "SOFTWARE"
CHANGE_DATE                 = "2009-07-02"
STATUS_TYPE                 = "APPROVED"
STANDARD_VALUE_OUTPUT_FLAG = "N"
TEXT_FLAG                   = "N"
TERSE_NAME                  = "filename"
SQL_FORMAT                  = "CHAR(40)"
BL_SQL_FORMAT               = "char(40)"
DISPLAY_FORMAT              = "JUSTLEFT"
AVAILABLE_VALUE_TYPE       = ""
END_OBJECT                  = ELEMENT_DEFINITION
END

```

```

PDS_VERSION_ID              = PDS3
LABEL_REVISION_NOTE        = "2004-11-08, SS/GEO, submitted as a
standards/dd cleanup;
2005-06-15, SLA/EN, template edited and submitted,
minimum_length changed to 3 (x.x) fn format.
2009-07-02 RS:RAS Updated max length, form. rule and desc. for 36.3 filename
length."

```

```

OBJECT                       = ELEMENT_DEFINITION
  ELEMENT_NAME                = "uncompressed_file_name"
  BL_NAME                     = "ufilename"
  DESCRIPTION                  = ""

```

The UNCOMPRESSED_FILE_NAME element provides the location independent name of a file. It excludes node or volume location, directory path names, and version specification. To promote portability across multiple platforms, PDS requires the file_name to be limited to a 36-character basename, a full stop (. period), and a 3-character extension. Valid characters include capital letters A - Z, numerals 0 - 9, and the underscore character (_)."

```

GENERAL_DATA_TYPE           = "CHARACTER"
MAXIMUM                     = "N/A"
MINIMUM                     = "N/A"
MAXIMUM_LENGTH              = "40"
MINIMUM_LENGTH              = "3"

```

```

STANDARD_VALUE_TYPE           = "FORMATION"
STANDARD_VALUE_SET_DESC       = "N/A"
KEYWORD_DEFAULT_VALUE         = "N/A"
UNIT_ID                        = "none"
SOURCE_NAME                    = "N/A"
FORMATION_RULE_DESC           = " The uncompressed_file_name is limited
to a 36-character basename, a full stop (. period), and a 3-character
extension."
SYSTEM_CLASSIFICATION_ID      = "COMMON"
GENERAL_CLASSIFICATION_TYPE    = "SOFTWARE"
CHANGE_DATE                    = "2009-07-02"
STATUS_TYPE                    = "APPROVED"
STANDARD_VALUE_OUTPUT_FLAG    = "N"
TEXT_FLAG                      = "N"
TERSE_NAME                     = "ufilename"
SQL_FORMAT                     = "CHAR(40)"
BL_SQL_FORMAT                  = "char(40)"
DISPLAY_FORMAT                 = "JUSTLEFT"
AVAILABLE_VALUE_TYPE          = "N"
END_OBJECT                     = ELEMENT_DEFINITION
END

OBJECT                         = ELEMENT_DEFINITION
NAME                           = DATA_SET_LOCAL_ID
STATUS_TYPE                     = APPROVED
GENERAL_DATA_TYPE              = CHARACTER
UNIT_ID                        = NONE
STANDARD_VALUE_TYPE            = SUGGESTED
MAXIMUM_LENGTH                 = 40
DESCRIPTION                     = "
    The DATA_SET_LOCAL_ID element provides a short (of order 3
    characters) acronym used as the local ID of a data set
    (Example value: IGLC). It may also appear as the first
    element of file names from a particular DATA_SET (Example
    value: IGLCINDX.LBL). Formation rule: The DATA_SET_LOCAL_ID
    must be a string of no more than the maximum valid length
    for a filename, and must consist of alphanumeric characters,
    hyphens and underscores (A-Z,0-9,-,_,_). "
END_OBJECT = ELEMENT_DEFINITION
END

```