Standards Change Request

PSDD Filename Length Clean-Up   **SCR3-1145.v1**

Provenance:

Date: 2008-10-15
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Working Group: D. Simpson (lead), M. Gordon, R. Joyner, E. Rye, S. Slavney

History:	2008-10-07	SCR 3-1144 was passed by PDS Management Council
	2008-10-08	Need for changes in *PSDD*, which had not been identified in the SCR, were recognized and the new SCR was drafted.

Problem:

SCR 3-1144 incorrectly stated that no changes would be needed in the *Planetary Science Data Dictionary*. Definitions of FILE_NAME and UNCOMPRESSED_FILE_NAME both state that the maximum basename length is 27 characters. In addition, the FILE_NAME MAXIMUM_LENGTH is given as 120 characters, which means validation tools based on *PSDD* do not report errors for excessively long values.

Current Urgency:

SCR 3-1144 has just been passed, allowing 36.3 file names. This clean-up SCR should be implemented in parallel to minimize inconsistencies in documentation and confusion among data providers and users. (This should be accelerated so that implementation can be done in parallel with implementation of SCR 3-1144.)

Proposed Solution:

The Working Group should determine the reason for the 120 character limit for FILE_NAME and evaluate its importance.

Update the *PSDD* FILE_NAME and UNCOMPRESSED_FILE_NAME entries to reflect the change in maximum length. Reduce the maximum_length of FILE_NAME (from 120 to 40) to be consistent with the PDS limit. Modify derivative documents and files (*e.g.*, pdsdd.full and the on-line Data Dictionary) accordingly.

(DATA_SET_LOCAL_ID formation rule description needs to be updated.)

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: No impact
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                = "2008-10-15 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                      = "2008-10-15"
```

```
       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.
   2008-10-15 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                     = "2008-10-15"
       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
```