

# Standards Change Request

Expand the optional keyword list for the IMAGE object

SCR3-1102.v2

## Provenance:

Date: 2007-04-023

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Revised: 2007-05-02, A.Raugh – modified impact on software

Working Group:

## Problem:

External agencies, most notably the Planetary Science Archives of ESA, are writing validation tools of their own and are running into problems with the OPTIONAL\_ELEMENT\_SET of the IMAGE object. The current pdsdd.full definition of the IMAGE object does not contain at least two keywords whose use is strongly recommended to avoid display ambiguity. Consequently, SBN is requesting that LINE\_DISPLAY\_DIRECTION and SAMPLE\_DISPLAY\_DIRECTION be explicitly added to the OPTIONAL\_ELEMENT\_SET of the IMAGE object.

## Priority:

The original submitter has requested this be given a High priority because a) it affects the external interface between PDS and PSA, and b) it should be quick to implement with minimal system impact.

## Proposed Solution:

Add LINE\_DISPLAY\_DIRECTION and SAMPLE\_DISPLAY\_DIRECTION to the OPTIONAL\_ELEMENT\_LIST for the IMAGE entries in the pdsdd.full file, the associated database, and the SR Appendix A description of the IMAGE object.

## Impact Assessment:

### *Documentation changes*

- PDS Standards Reference, Appendix A, Section A.20.2: Add LINE\_DISPLAY\_DIRECTION and SAMPLE\_DISPLAY\_DIRECTION to this list.

### *Public Interface changes*

- The PSDD database will require an update to the IMAGE entry to add the

LINE\_DISPLAY\_DIRECTION and SAMPLE\_DISPLAY\_DIRECTION to the OPTIONAL\_ELEMENT\_SET.

- The pdsdd.full file and index will require an update

#### *Software changes*

- NASAView must be modified to recognize and properly apply these two keywords.

#### *External Agencies*

- We should notify the ESA developers of the pvv tool of the change, in case this affects when they next freeze their standard input files.

#### **Recommended Actions:**

1. Schedule the database, documentation and software updates.
2. Notify the PDS and PSA developers when the change to pdsdd.full has been implemented.
3. Notify data nodes and interested users when the NASAView upgrade has been made.