

# Standards Change Request

Increase length of START\_TIME & STOP\_TIME keywords

SCR3-1104

## Provenance:

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## Problem:

The current length of the START\_TIME and STOP\_TIME keywords is 24 characters which provides for a maximum time measurement to within milliseconds:

CCYY-MM-DDTHH:MM:SS[.sss]

MRO/HIRISE labels specify the precision of these keyword-values to within microseconds. The team proposes to increase the length of these keywords to 27 characters to accommodate the increased precision of the measured data and to amend the definition of these keywords in the data dictionary to reflect the modification to the formation rules.

Change: Formation rule: YYYY-MM-DDThh:mm:ss[.fff].

To: Formation rule: YYYY-MM-DDThh:mm:ss[.ffffff].

## Current Urgency:

Priority is high. This change is needed for the next set of MRO HIRISE data. (It was medium priority when this SCR was first submitted, but now that the time is shorter, it has been raised to high.)

## Proposed Solution:

Increase the maximum length of the START\_TIME and STOP\_TIME keywords to 27 characters:

CCYY-MM-DDTHH:MM:SS.ssssss

Amend the data dictionary definitions to:

Change: Formation rule: YYYY-MM-DDThh:mm:ss[.fff].

To: Formation rule: YYYY-MM-DDThh:mm:ss[.ffffff].

**Impact Assessment:**

The impact should be low. The Data Dictionary will need to be modified to change the definitions of the above two keywords.

**Additional Information:**

N/A

**Requested Changes:**

An updated element definition for each of the above keywords has been submitted.