CTLI Namespace

NASA Planetary Data System

Oct 27, 2025

USER GUIDE

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The Instrument Type Data Dictionary provides a way to classify instrument types. It also allows for similar types to be connected to each other to aid in search. This dictionary is only for use in instrument context products and so should only be used by PDS personnel when creating context products to associate with archive bundles.

The Instrument Type Data Dictionary is controlled by a Steward Team, the current lead of this team is Lyle Huber at the PDS Atmospheres Node (lhuber@nmsu.edu).

December 13, 2019 Lyle Huber

CHAPTER

ONE

INTRODUCTION

1.1 Purpose of this User's Guide

This guide describes the organization and contents of the Instrument Type (CTLI) Data Dictionary, one of several Data Dictionaries maintained by the Planetary Data System (PDS). This dictionary is used when creating labels for instrument context products.

1.2 Audience

This guide is intended primarily for use by PDS personnel (or their international equivalents). Context products should be both created and curated by the PDS.

1.3 Applicable Documents

The Planetary Data System Standards Reference, https://pds.nasa.gov/datastandards/documents/sr/current/, the complete reference for the PDS4 Information Model The PDS4 Data Dictionary, https://pds.nasa.gov/datastandards/documents/dd/current/, the PDS4 core (or "common") dictionary in an easily searchable HTML format The PDS4 Information Model Specification, https://pds.nasa.gov/datastandards/documents/im/current/, the same information as in the PDS4 core dictionary, in a formal specification for use by programmers and data engineers

CHAPTER

TWO

OVERVIEW OF THE CTLI LOCAL DATA DICTIONARY

The Instrument Type Data Dictionary provides a way to classify instrument types. It also allows for similar types to be connected to each other to aid in search. This dictionary is only for use in instrument context products and so should only be used by PDS personnel when creating context products to associate with archive bundles.

CHAPTER

THREE

HOW TO INCLUDE THE CTLI LOCAL DATA DICTIONARY IN A PDS4 LABEL

```
    <Instrument>
        <name>Radio Science Subsystem</name>
        <Type_List_Area>
            <ctli:Type_List>
                <ctli:type>Radio Science</ctli:type>
            </ctli:Type_List>
        </Type_List_Area>

        <naif_instrument_id>not applicable</naif_instrument_id>
        <serial_number>not applicable</serial_number>
        <description>
          The telecommunications system uses an X-band transponder on the spacecraft and
          transmitters and receivers at stations of the NASA Deep Space Network on␣
↪Earth.
          Range and Doppler measurements made during communcations sessions can be used␣
↪to
          determine the spacecraft trajectory; from the trajectory, Mercury's gravity␣
↪field
          can be inferred.  Measurements of occultation times can be used to obtain the
          planet's radius at the occultation points, refining the planet's shape model.
        </description>
    </Instrument>
```

CHAPTER

FOUR

EXAMPLES

TBD

CHAPTER

FIVE

<TBD>

REQUIRED

Submitter: Jane Doe

My first class

5.1 <my_first_attribute>

REQUIRED

Submitter: Jane Doe

My first attribute