



**Planetary Science Data Dictionary
Hardcopy Version**

**Engineering Node
Standards**

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Outline



- Problem
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Problem



- Produce a hardcopy version of the Planetary Science Data Dictionary (PSDD)
 - Will be generated in Adobe PDF format
 - Will need to be updated with every release of the online PSDD (roughly every three months)
 - Must not consume significant manual effort for future updates



Deliverables



- PDF version of PSDD will be generated using LaTeX. The source files will consist of:
 - a set of static LaTeX files and
 - a set of LaTeX files generated on-the-fly from the PSDD database by a Perl script
- **Static sections:**
 - Preface
 - Change log
 - Chapter 1, Introduction
 - Chapter 2, Data Dictionary Conventions
 - Appendix B, JPL-MGDS Standard Values
 - Appendix C, Meta-Data Definition Objects
 - Appendix H, Element Name Component Words
- **On-the-fly sections:**
 - Title page
 - Table of contents (generated by LaTeX)
 - Chapter 3, Element Definitions
 - Appendix A, Standard Values
 - Appendix D, PDS Structure Objects
 - Appendix E, Element Aliases
 - Appendix F, Data Element Classified Listings
 - Appendix G, System-Specific Classified Listings



- The following sections have been completed in draft format:
 - Title page - complete
 - Preface - complete
 - Change log - complete
 - Chapter 1, Introduction - complete
 - Chapter 2, Data Dictionary Conventions - complete
 - Chapter 3, Element Definitions - complete
 - Appendix A, Standard Values - complete
 - Appendix B, JPL-MGDS Standard Values - complete
 - Appendix C, Meta-Data Definition Objects - complete
 - Appendix D, PDS Structure Objects - **incomplete**
 - Appendix E, Element Aliases - **incomplete**
 - Appendix F, Data Element Classified Listings - **incomplete**
 - Appendix G, System-Specific Classified Listings - **incomplete**
 - Appendix H, Element Name Component Words - complete



Schedule



- First draft of PDF formatted version of PSDD, including 1996 (Rev. D) text for static portions: ~40 hours of coding
- Fix of formatting problems: ~20 hours of coding (?)
- A review and update of the static portions of the PSDD should be carried out under the cognizance of the Technical Group: ~2 months
- At this point, a formal PDF version of the PSDD could be publicly released. Generating and posting a new PDF upon updated releases of the PSDD should take only a few minutes (~20 min)
- Future developments could include the ability to generate customized versions of the PSDD optionally including none, some, or all of the appendices, and including varying amounts of detail in certain appendices (example, standard values): ~20 hours coding
- How the above time estimates translate into an actual schedule is dependent upon the priority given this task relative to others by the Management Council