

Format Translation Overview

PDS 2010 Tech Session

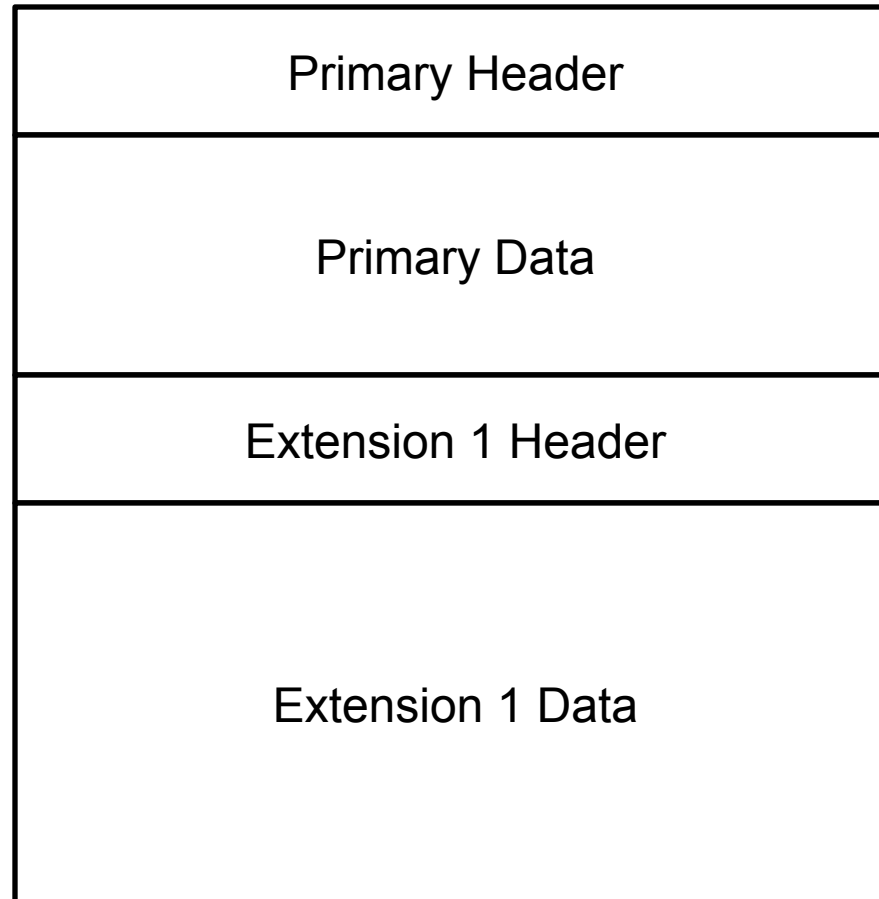
June 10, 2009

PDS 2010 Data Design WG

Assumptions

- **Data Types**
- **Array Storage Order**
- **File Division**
- **Label Grammar**
- **Reconstruction Information**

FITS File Structure

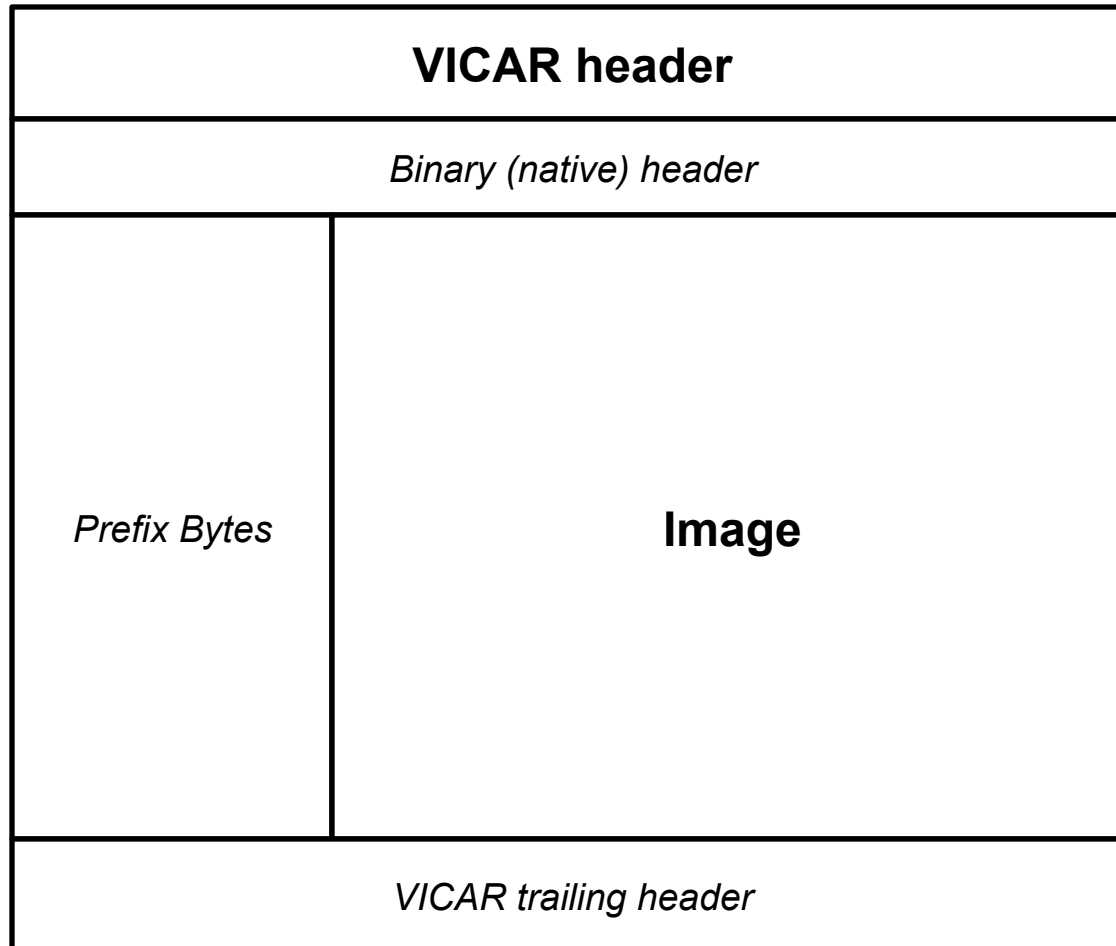


FITS to PDS4

- **Almost trivial because of assumptions**

Prototype took < 4 hours to code and test.

VICAR File Structure



VICAR to PDS4

- **Data type issues**
- **Byte sequence preservation in interleaved logical segments**
- **Reconstruction information preservation**

Prototype took approximately 8 hours to code and test.

PDS4 to FITS

- **Add FITS header to a PDS4 ARRAY object for import via a FITS reader into analysis environment; output a conformant FITS file.**
- **Nearly trivial because of archive format assumptions**

About 1 hour to code prototype

Backup