

# Applications WG

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# VOTable and Nulls

## Fixes:

### A: TABLEDATA fix:

- ▶ Empty `<TD/>` element means NULL
  - **Integer columns:** currently illegal
  - **Floating point columns:** currently means NaN
- ▶ **Low impact:** very little code change required

### B: BINARY fix:

- ▶ Introduce new BINARY-like format BINARY2, with per-cell NULL-ness bit flag
- ▶ Changes (new `serialization` parameter) to VOTable MIME type (to ensure unprepared clients do not receive BINARY2 if they can't parse it)
- ▶ **Medium impact:** I/O toolkits need new functionality, existing software unable to read new format tables

## Options:

0. Do nothing
1. Adopt TABLEDATA fix only
2. Adopt TABLEDATA fix and new BINARY2 encoding

## Conclusion:

- Option 2., by marginal consensus (over option 1.)

# VOTable Roadmap

## VOTable 1.3

- Changes
  - ▷ Adjust TABLEDATA encoding definition
  - ▷ New BINARY2 encoding definition
  - ▷ Extend MIME type with `encoding(?)` parameter
  - ▷ *(perhaps a few uncontroversial corrections while we're there)*
- Schedule
  - ▷ Oct 2012: Stable draft (Markus *et al.*)
  - ▷ May 2013: Implementations + RFC

# Contributed Presentations

## Applications 1

- Laurent Michel: TAP/ObsCore in Saada, TapHandle
- Tushar Agrawal: VOStat and VOPlot
- Chenzhou Cui: VO Standards supported by the Chinese Astronomical Data Center
- Carlo Maria Zwölf: Parameter Description Language generic client
- Thomas Boch: Multi-Order Coverage maps

## Applications 2

- Carlos Rodrigo: VOSA new functionality
- Omar Laurino: Iris v1.1: Update on the VAO SED tool
- Milvia Capalbi: ASDC SED builder
- Satoshi Eguchi: NED resolver TOPCAT extension and AGN candidates
- Florian Rothmaier: Debian packaging for the VO

## Applications 3

- André Schaaff: Experiments (iOS, Android, HTML5/WebGL) for mobile and online services
- Mike Fitzpatrick: VO-IRAF integration
- Baptiste Ceconi: Connection planetary plasma data with IVOA tools using SAMP
- Laurent Bourges: AppLauncher and SAMP metadata
- Jonathan Fay: WWT: HTML5 and Layerscape