

# Operations IG

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Vice-Chair: Steve Groom

IVOA Interop Meeting  
Online

29 April 2022

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# Session 1: Operations and Standards

Tuesday 26 April, 22:00–23:00 UTC (Session #6):

## Requirements and Validators — Markus Demleitner

- ▷ MUSTs have costs — don't impose without good reasons
- ▷ External and Future requirements (not producing immediate failures) are very likely to be violated in practice, unless checked by validation
  - ⇒ Future requirements most important to validate — if they are important at all

## Validation for VO Standard Authors — Mark Taylor

- ▷ Strive to avoid errors in standards (avoid service problems, Errata, ...)
- ▷ Validate normative text + examples during standard development (VOTables, XML, XSD, UCDs, VOUnits, ...)

## *Discussion: can we produce better standards?*

- ▷ **Hot topic? Came up also in CSP Panel and Edu IG sessions**
- ▷ Keep requirements simple, avoid optional extras
- ▷ Keep in mind readers may not be VO experts
- ▷ Be conservative in what you ask, only ask for what you need
- ▷ Are detailed UCDs always required?
- ▷ Tension between client and service demands
- ▷ Identify examples of best practice?
- ▷ XSD vs. Schematron (e.g. VO-DML)

## Session 2: Operational Status

Friday 29 April, 20:30–21:30 UTC (Session #23):

The VO at the Chandra X-Ray Center — Raffaele D'Abrusco

- ▷ “Multi-generational IVOA Presence”

VOUnits in Vizier — Sébastien Derriere, Gilles Landais

- ▷ 26.3% errors → 0.1% errors!
- ▷ (and yocto-tons)

PADC Web Validators — Renaud Savalle

- ▷ Great resource for improving services

PADC Weather Report — Renaud Savalle

- ▷ Several items to follow up — will continue to iterate Monitor → Report → Improve cycle

# Roadmap

## Monitoring

- Monitor VO health (conformance, reliability, performance)

## Address non-compliance

- Identify common/persistent errors
- Support service operators to improve compliance
- Work with implementors on software-related issues (*SoftID Note should help*)
- Work with WGs on standards-related issues

## Validation

- Ensure validators are available for all IVOA standards (where applicable)
- Maintain list of validators
- Encourage use of validators
  - ▷ On deployed services
  - ▷ During standard development

## Communication

- Provide forum for discussion of operational issues

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