OPERATIONS INTEREST GROUP SUMMARY

Tom McGlynn, Chair

Mark Taylor, Vice Chair

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- Improvements in validation statistics from both PADC and ESA but not necessarily due to changes to services:
  - Errata in standards
  - Improvements in Validators
- Good numbers for Cone and Image services, OK for TAP (given its complexity), still widespread issues for SSA

WEATHER MAPS AND QUALITY OF IMPLEMENTATION

- New validator for DataLink
  - Should DataLinks be validated automatically?
- Status of validators
  - VO-DML validator available
  - Data models will need VO-DML description, not separate validator
  - No VOEvent, Credential delegation validators
  - Cleanup of Validator Wiki page
    - http://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaValidatorsSummary

VALIDATORS STATUS

- CADC fully integrates VO functionality and has hundreds of millions of VO requests per year.

- ESASky and GAIA have developed scalable implementations of VO services using modern grid infrastructure that seamlessly handles massive spikes in usage.

- IRSA revew of user clients shows that major element of their non-VO usage is through non-VO based Python clients.

IMPLEMENTATIONS

- **Uptake of standards** can be slow (SIAv2) but ultimate value should not be evaluated prematurely (see TAP).

- Sharing of information of **what clients are using our VO services** is both interesting and useful but should not be mandatory.

  - Large fraction of users of ESASky are using mobile devices.

- Growing requirements for the use of **HTTPS** in web sites have broad implications for VO services and protocols. The OIG will draft a note discussing this to inform the community of what they should be aware of and how best to mitigate concerns.

  - Breaks SAMP, redirection concerns, JavaScript security issues (for mixed content), certificate issues, inability to write simple clients, …

GENERAL ISSUES