VO Services Validation from Euro-VO Registry

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VO Services compliancy tests

1. Services compliancy tests for:
   a. SIAP 1.0, SSAP 1.0, SCS 1.0, TAP 1.0 (taplint Mark Taylor)
VO Services compliancy results

1. Results could be grouped and simplified

2. GREEN (A++, A+, A, B)
   a. All requirements compliant

3. ORANGE (C, C-, C--)
   a. Between 1 and 3 requirements non compliant

4. RED (C--, D, E)
   a. More than 3 requirements non compliant
Cone Search Compliancy
Euro-VO Registry

repo 'ESAVO', SCS compliance category distribution over time
# total @ earliest timepoint with actual data: 69, @ latest: 17028
repo `ESAVO`, TAP compliance category distribution over time
# total @ earliest timepoint with actual data: 23, @ latest: 36
VO Services non compliancy

1. Some requirements are systematically non compliant in almost all VO services supposed to implement them

2. Reasons for non compliancy:
   
   1. Service validator is wrong ?
   
   2. Requirement not clear and therefore wrongly implemented (too strictly in the validator and too loosely in the service) ?
   
   3. "Wrong" requirement, conscientiously not implemented ?
Non compliant requirement failing in 100% of the services

Failing Validation Criteria

Validation criteria whose failure percentage (over all time) is in the following range [100%~100%].


<table>
<thead>
<tr>
<th>service type</th>
<th>criterion code</th>
<th># successes</th>
<th># failures</th>
<th>% failures</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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</tbody>
</table>

See more details
Non compliant requirement failing in >90% of the services

Failing Validation Criteria

Validation criteria whose failure percentage (over all time) is in the following range [90%~100%].


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<thead>
<tr>
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<th># successes</th>
<th># failures</th>
<th>% failures</th>
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How to improve the VO services compliancy – 1?

Reasons for non compliancy:

1. Service validator is wrong?
   - ✓ Fix the service validator

2. Requirement not clear and therefore wrongly implemented (too strictly in the validator and too loosely in the service)?
   - ✓ Update Standard with ERRATA and/or update service validators
   - ✓ Need to inform service providers for updating their service

3. “Wrong” requirement, conscientiously not implemented?
   - ✓ Update Standard with ERRATA
   - ✓ Update service validators (downgrade REQ -> REC/WARNING/EXTRA?)
   - ✓ Services will then become compliant
How to improve the VO services compliancy – 2?

Classifying Services Compliancy

1. GREEN (A++, A+, A, B), all requirements compliant
   - Nothing to do (congrats to service provider ;-) )

2. ORANGE (C, C-, C--), between 1 and 3 requirements non compliant
   - Contact service provider with non compliant requirements

3. RED (C--, D, E), more than 3 requirements non compliant
   - Contact service provider with non compliant requirements
   - If not improvement
     - Make service inactive ? Remove the service?