



VO-Paris Registry Weather Report

Renaud Savalle and Pierre Le Sidaner

Thanks to Jonathan Normand, Albert Shih

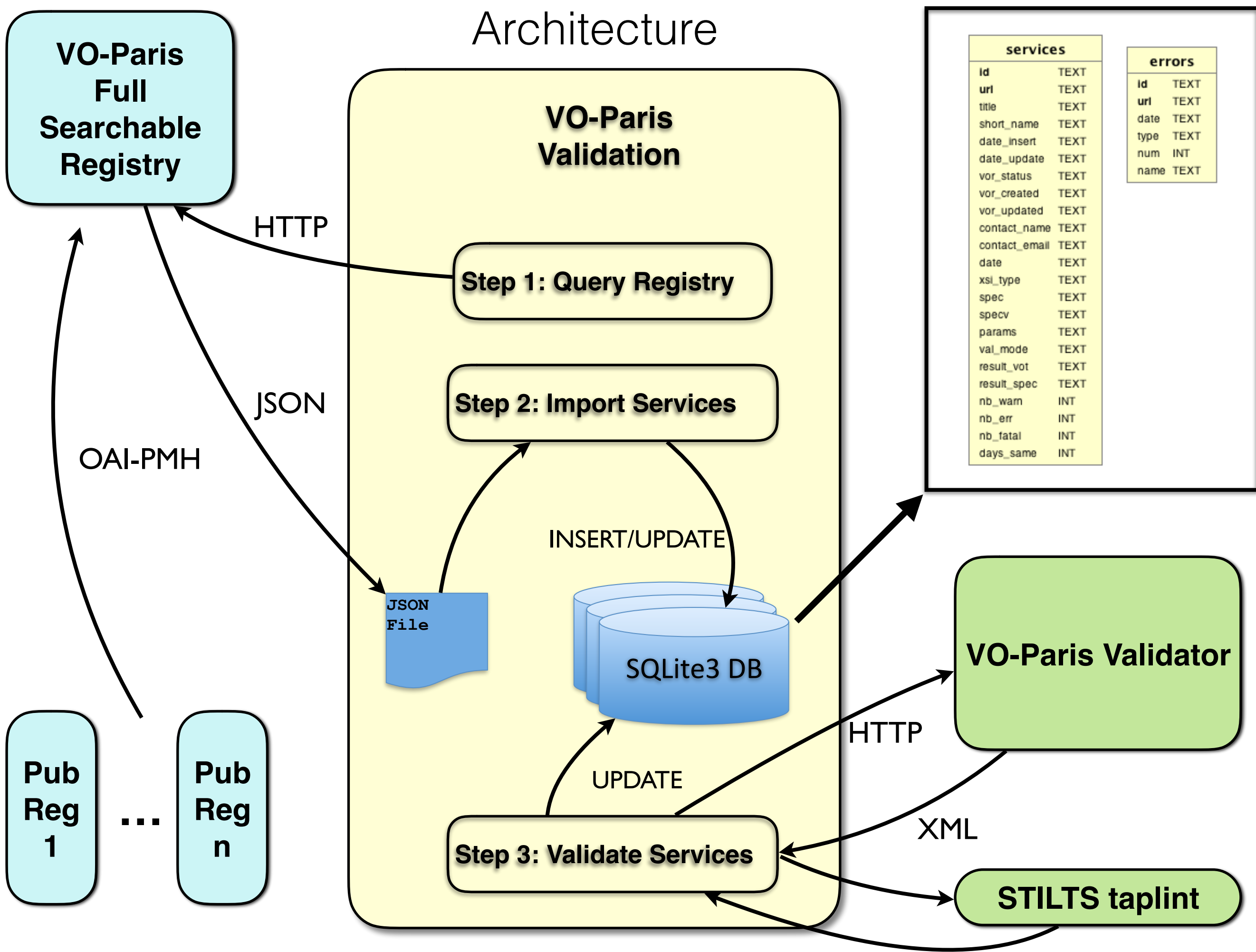
Interop Trieste 2016-10-23 / Ops

I/OA ROADMAP 2016A

Operations

- Provide **feedback** on the operational implementation of VO standards including the level to which operational implementations pass **validation services**.
- Work to **promote** the development and use of **validation services** for VO standards.
- Continue to work to **unify** the reporting of **validation errors**.

Architecture

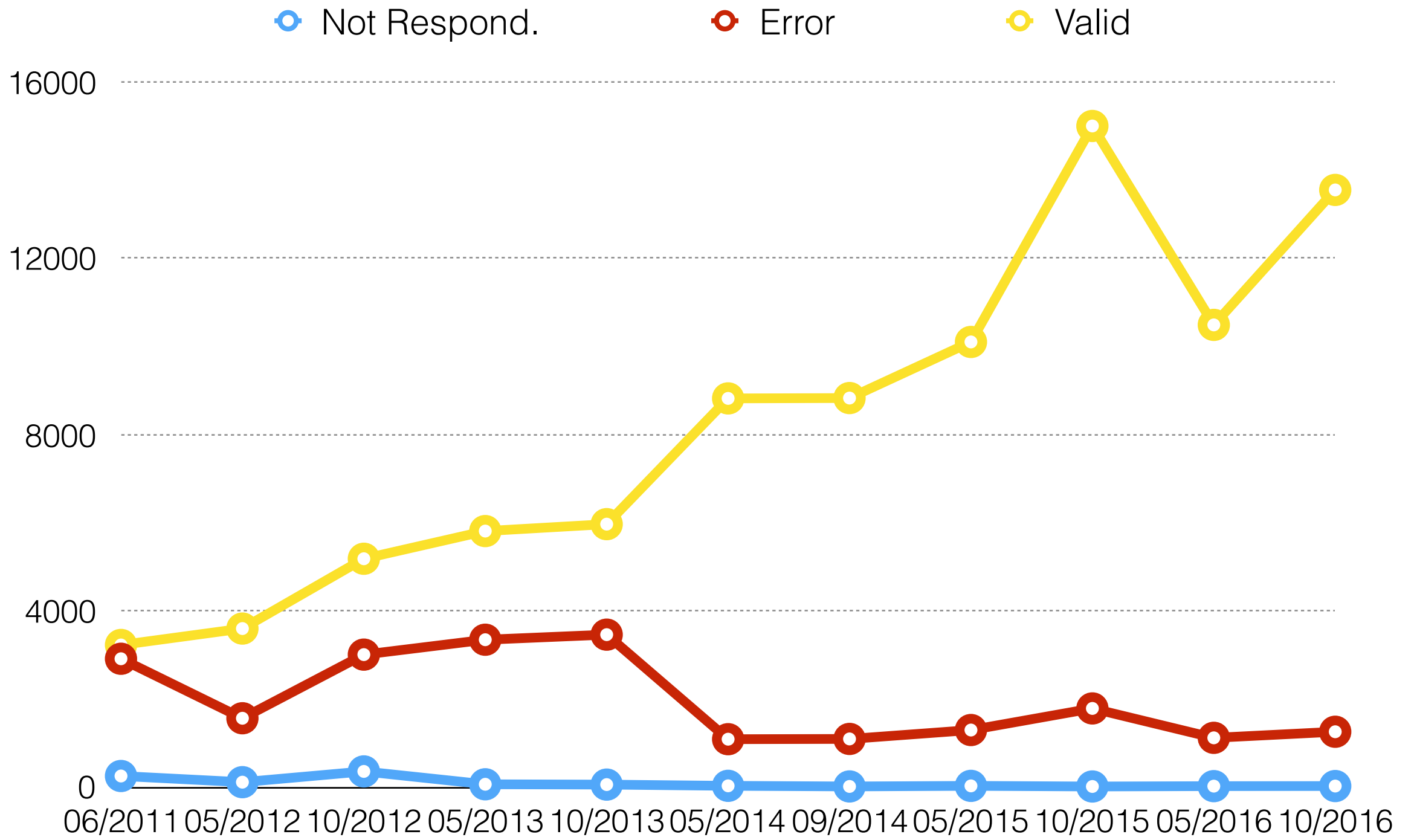


VO-Paris Validation Stats

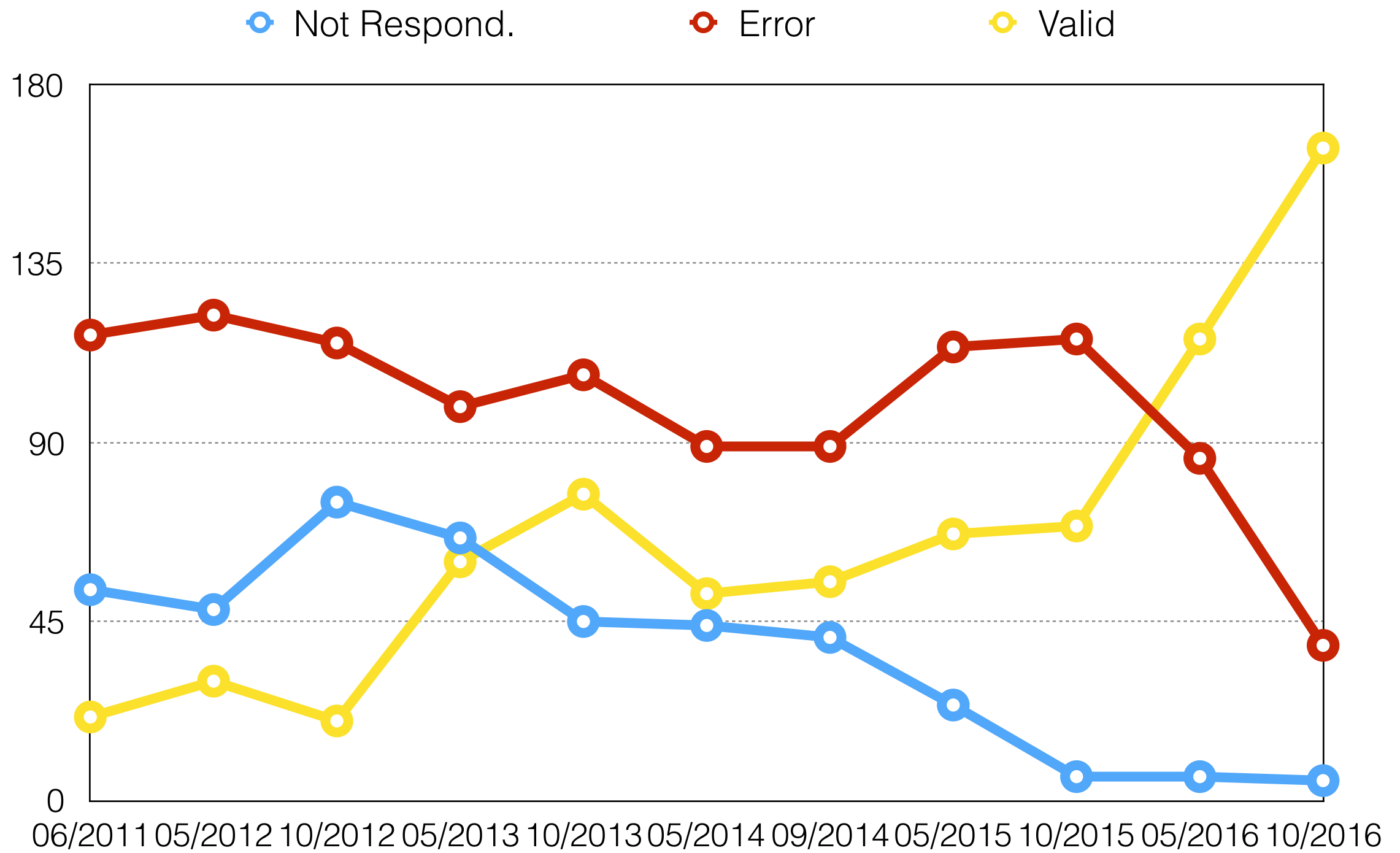
2016-10-06

	IVO Ids	Tested Services (Capabilities)	Time	Not Responding	Failed	Passed
CS Total	10393	14828	773 mins	24 (0.2%)	1255 (8.5%)	13549 (91.4%)
CS VizieR	9234	13526 (91.2%)		0	906 (6.7%)	12620 (93.3%)
CS Others	1159	1302 (8.8%)		24 (1.8%)	344 (26.4%)	791 (60.7%)
SIA	208	208	165 mins	5 (2.4%)	39 (18.8%)	164 (78.8%)
SSA	50	51	2 mins	3 (5.9%)	12 (23.5%)	36 (70.6%)
TAP	34	34	37 mins	0	N/A	N/A

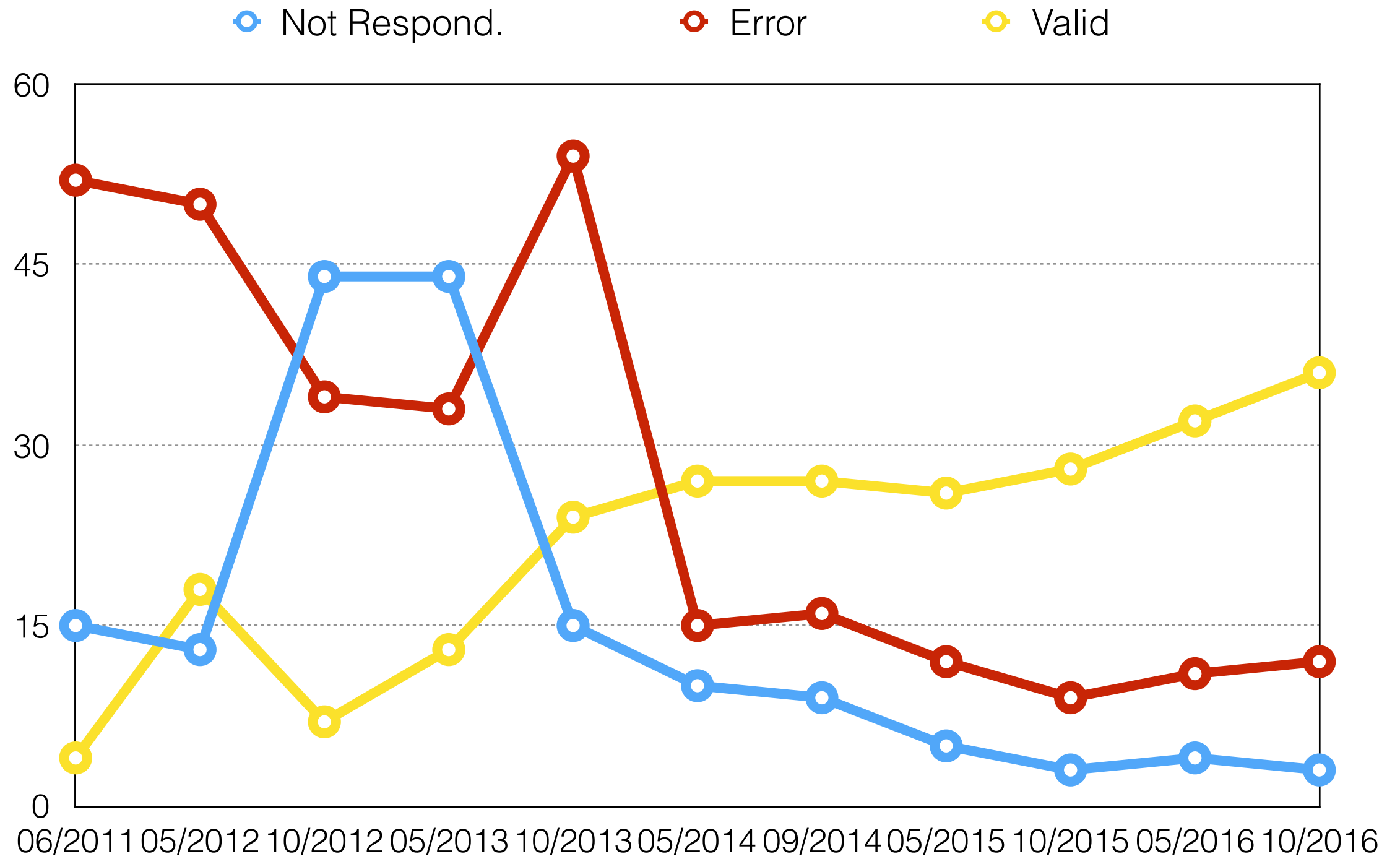
CS History



SIA History



SSA History



Cleaning non-responding services

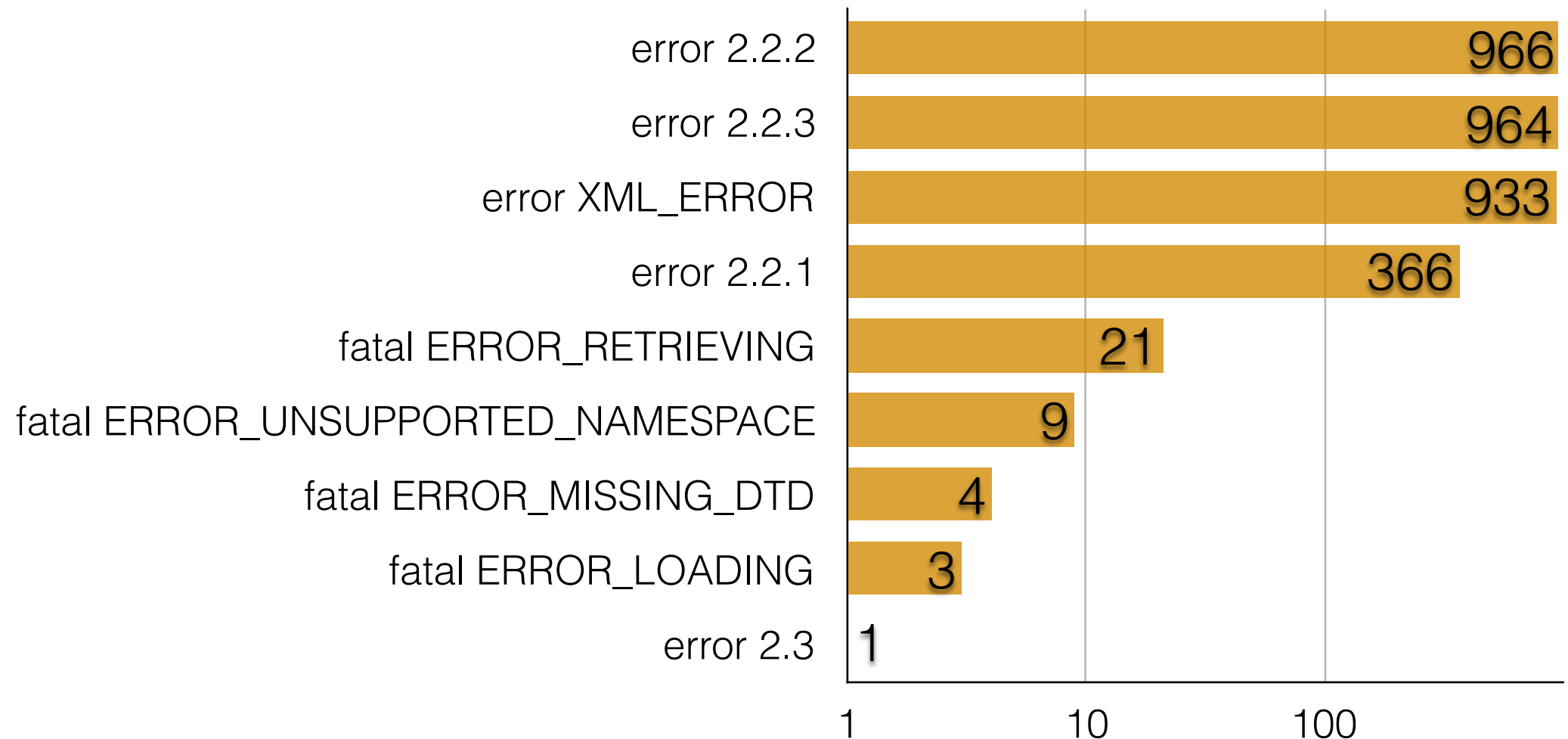
- Performed twice a year in May and October: 207 semi-automatic emails sent since 2013 + several manual emails.
- Escalation to IVOA exec (country rep and chair): useful.
- **Things are getting better !** 2016-10: only 6 emails sent about CS, 2 about SIA, 2 about SSA services.
- Contact name and email (preferably an alias) should exist in the Registry !

Errors Analysis

- Each fatal/error/warning is logged in the table **errors** of the SQL DB
- Extraction query:

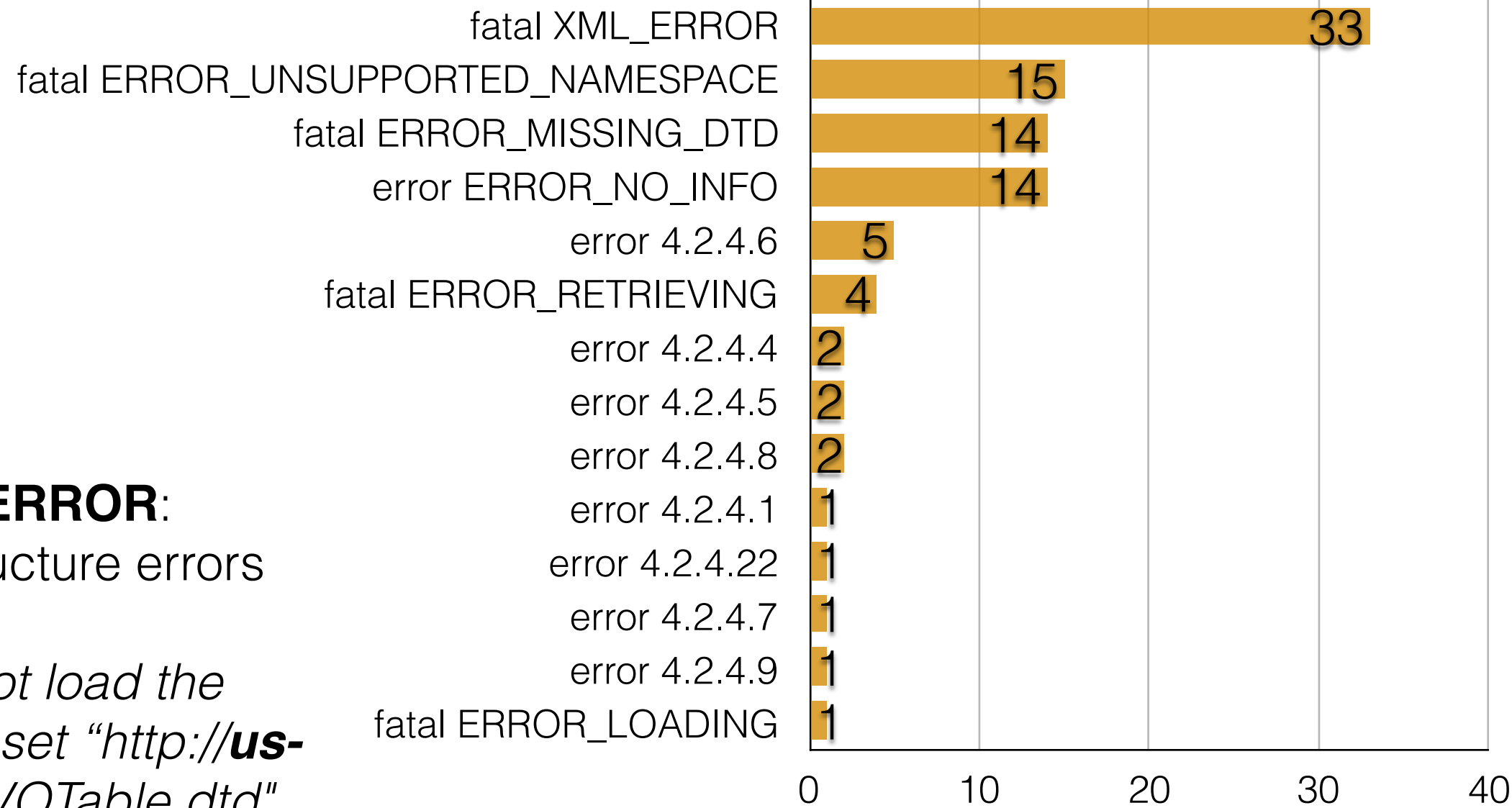
```
SELECT type||" "||name, count(name)
FROM errors where date = '2016-10-06' and (type IN
('error', 'fatal'))
GROUP BY name
ORDER BY count(name) DESC
```

Top CS Errors



- Details from <http://voparis-validator.obspm.fr/json>
- Error **2.2.2**: one POS_EQ_RA_MAIN column needed
- Error **2.2.3**: one POS_EQ_DEC_MAIN column needed
- Error **XML_ERROR**: mostly because VOT > 1.0 does not support CS v1 UCDs
- Error **2.2.1**: one ID_MAIN column needed

Top SIA Errors



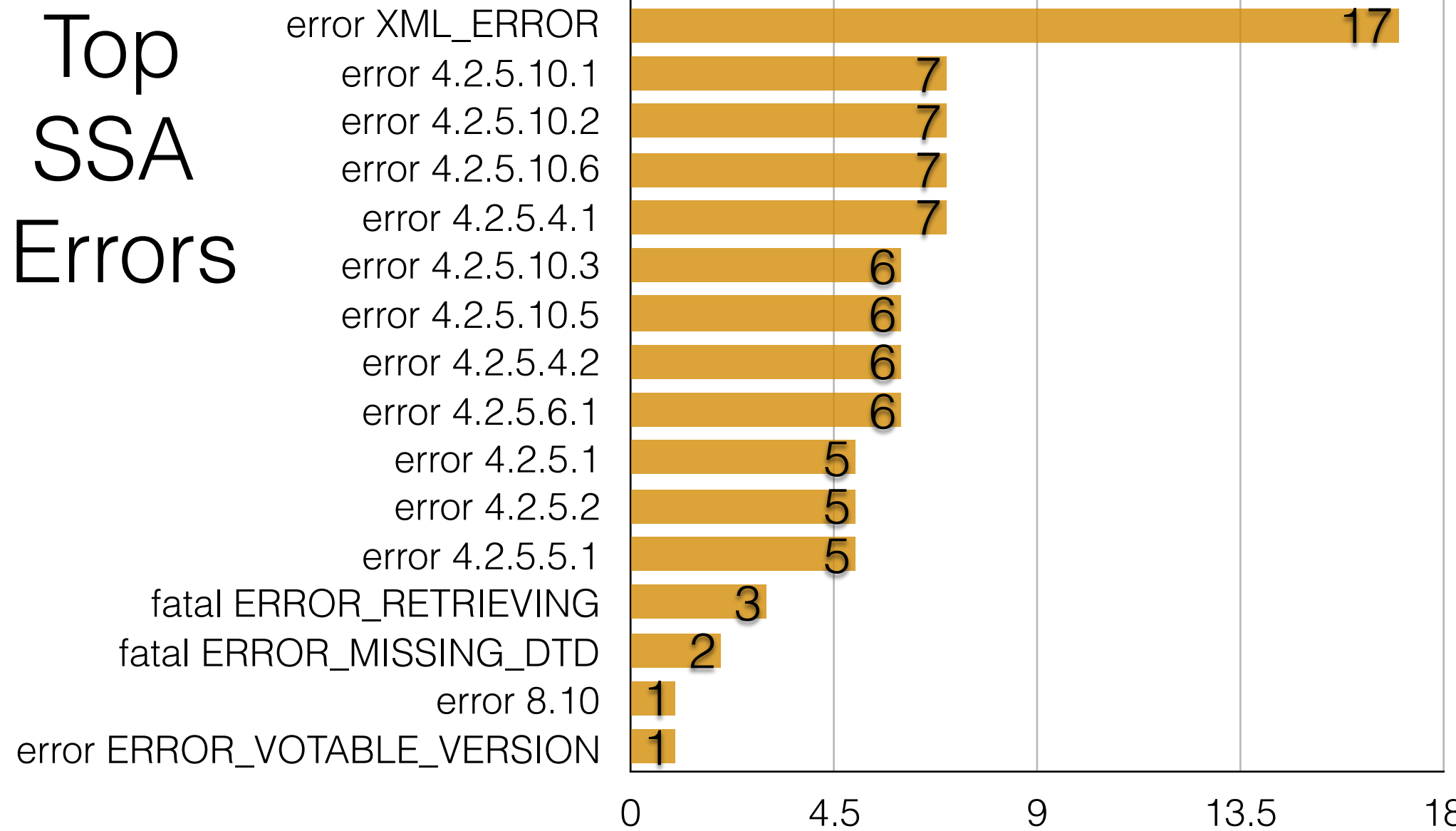
- Fatal **XML_ERROR**:
VOTable structure errors

Ex: "Could not load the external subset "http://us-vo.org/xml/VOTable.dtd"

- Fatal **ERROR_UNSUPPORTED_NAMESPACE**: a used namespace is not correctly declared.
- Fatal **ERROR_MISSING_DTD**: the DTD cannot be found.
- Error **ERROR_NO_INFO**: missing <INFO> tag
- Error **4.2.4.6**: one FIELD or PARAM with ucd="VOX:Image_Naxes

Top SSA Errors

- Error **XML_ERROR:**
VOtable
structure errors
- Error **4.2.5.10.1:**
Mandatory FIELD
or PARAM with
utype="ssa:Char.
SpatialAxis.Cove
rage.Location.Val
ue

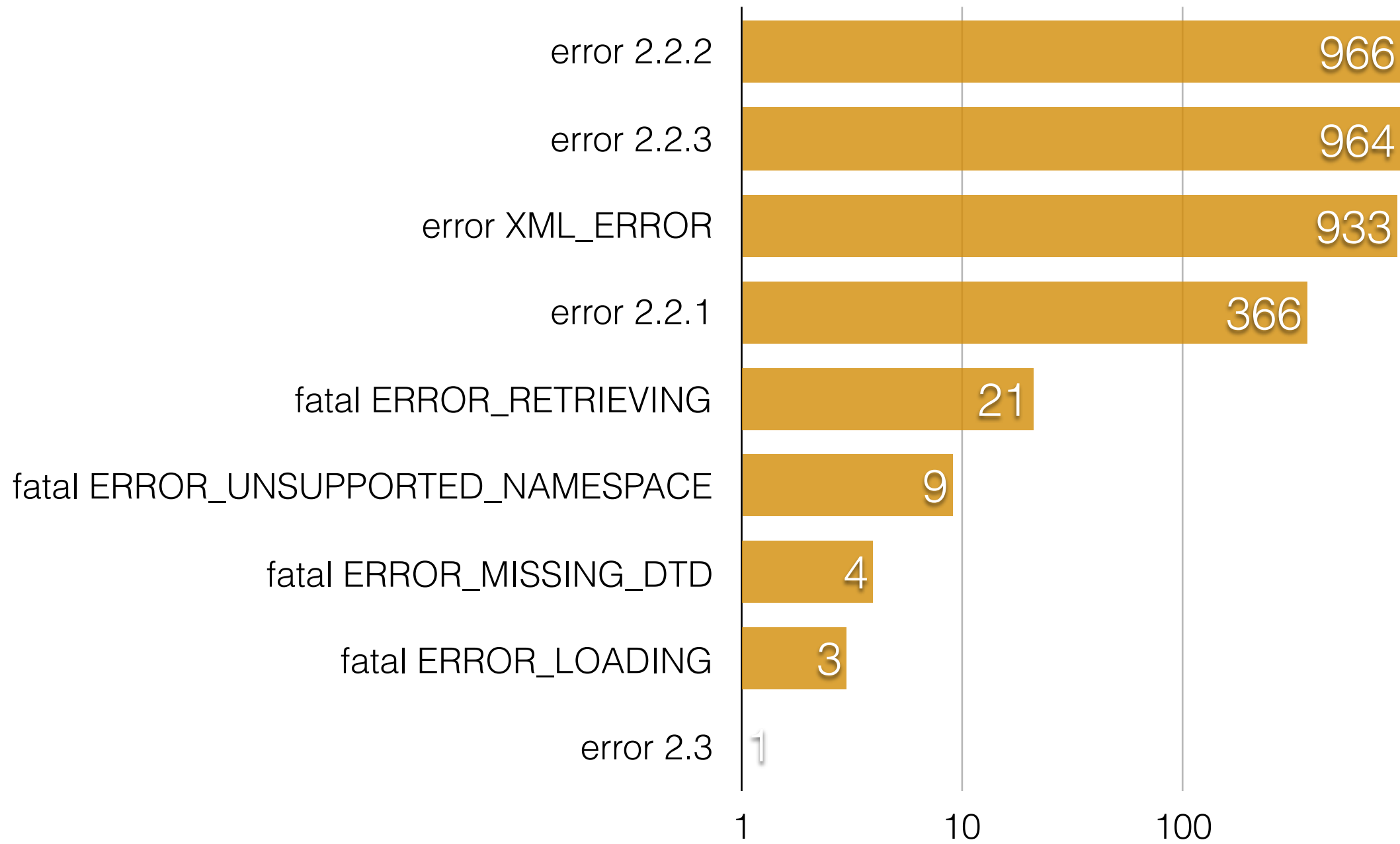


- Error **4.2.5.10.2:** idem for utype="ssa:Char.SpatialAxis.Coverage.Bounds.Extent
- Error **4.2.5.10.6:** idem for utype="ssa:Char.SpectralAxis.Coverage.Bounds.Extent
- Error **4.2.5.4.1:** idem for utype="ssa:Dataset.DataModel"

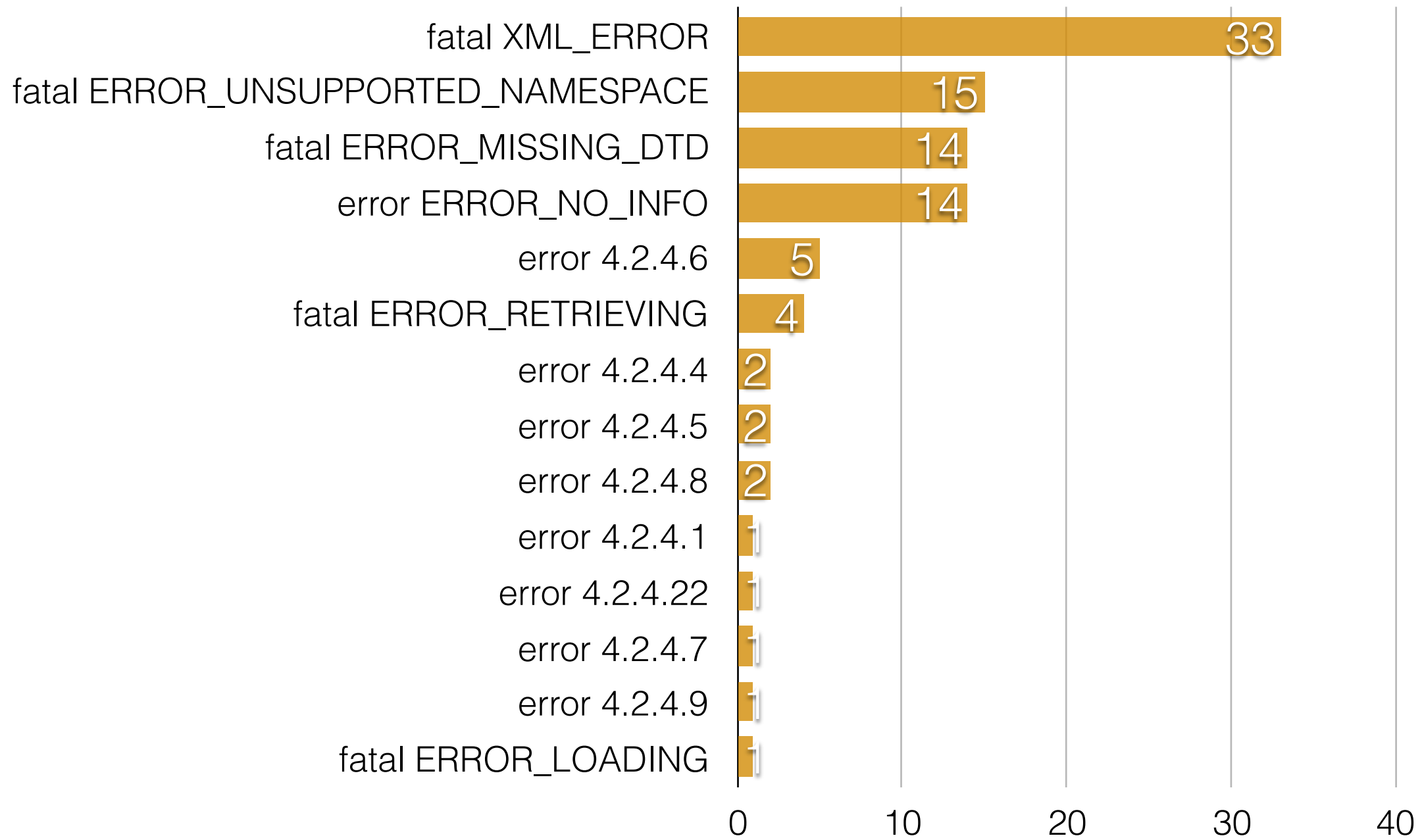
Conclusion

- Collective action with Registry maintainers (Heidelberg, ESAC, STScI), chair and vice-chair of the Registry group + IVOA exec.
- We now have capability to keep each error/warning generated by each service over time.
- The number of non-responding services has been steadily decreasing and is now very small: the cleaning process is efficient.
- The validator will soon support DataLink and SODA. There are still open questions about SIAv2.
- The validation process can be improved by using datacentre-provided examples, and tracing TAP errors

CS fatals+errors



SIA fatals+errors



SSA fatals+errors

