

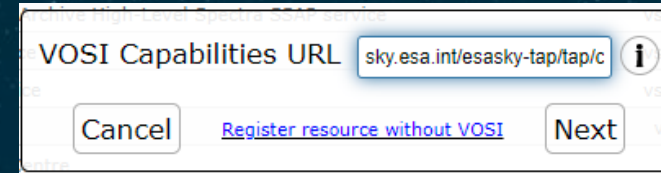
Euro-VO Registry Weather Report

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ESA), Sara Nieto (RHEA for ESA), Rach Bhatwadekar (ESA)

IVOA interoperability meeting, Ops Session, 23/05/2024

Euro-VO Registry New Releases

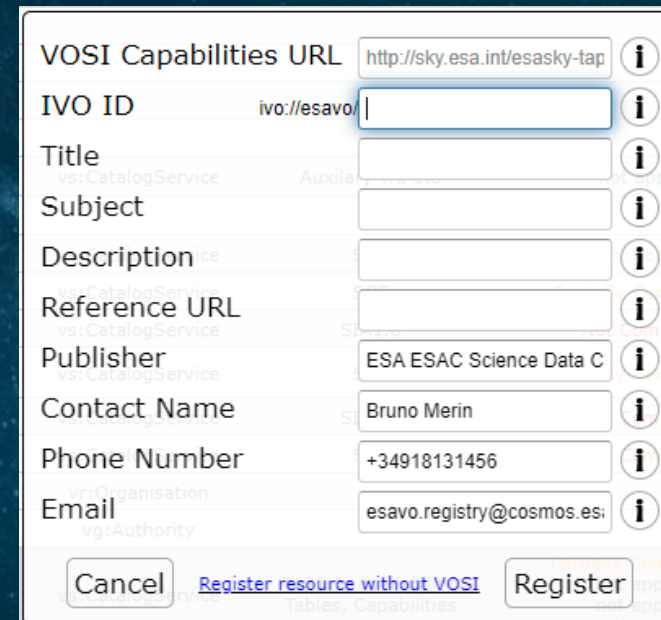
- <https://registry.euro-vo.org>
- Reach the team at: esavo.registry@cosmos.esa.int
- **Version 4.6**
 - A++ rating for the Euro-VO Registry TAP
 - Bug fixes
- **Version 4.7**
 - New resource creation Wizard – Utilizing VOSI
- **Version 5.0**
 - VOSI updater



High-Level Spectra SSAP service

VOSI Capabilities URL ⓘ

[Register resource without VOSI](#)



VOSI Capabilities URL ⓘ

IVO ID ⓘ

Title ⓘ

Subject ⓘ

Description ⓘ

Reference URL ⓘ

Publisher ⓘ


Contact Name ⓘ

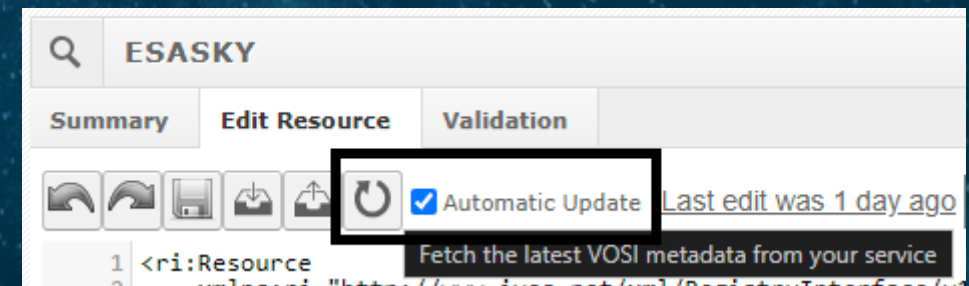
Phone Number ⓘ

Email ⓘ

[Register resource without VOSI](#)

The new VOSI Support

- When you register a new resource with VOSI support, we'll fetch your service's latest VOSI metadata information and automatically add it to your resource.
- VOSI Updater
 - You can manually fetch the latest VOSI metadata from your service 
 - We'll periodically poll your VOSI endpoints and update the resource XML to ensure the registered VOSI metadata is current.
 - You can opt out & you can easily browse and restore old versions
- Thus, the registration process has been simplified, the maintenance burden has been lowered and the VO ecosystem has been greatly improved



Statistics from the VOSI Updater

- Number of Resources, including authorities and deleted resources: 503
- Number of deleted Resources: 171
- Number of Authorities: 50

- **Number of Resources with VOSI support declared: 37**
- **Number of Resources with VOSI support, but not declared in the registry: 30**

- **Number of Resources updated: 42**
- Number of Resources already up to date: 215
- Number of Resources not responding: 25

Euro-VO Registry own validators for protocols:

- Simple Cone Search (SCS) v1.03
- Simple Image Search (SIA) v1.0 & v2.0
- Simple Spectral Access (SSA) v1.1

Euro-VO Registry external validators

- Table Access Protocol (TAP) v1.0 & v1.1 using Taplint (STILTS)
- Multi-Order Coverage map (MOC) v1.0, v1.1 & 2.0 using CDS's MOC validator

• **Compliant** (no requirement fails)

- A++ no criterion fails
- A+ no requirement, warning or recommendation fails
- A no requirement or warning fails, but at least one recommendation fails
- B no requirement fails, but at least one warning fails

• **partially compliant** (some (but not all) requirements fail)

- C at least one (1) req fails, but at least one (1) req equally succeeds
- C- at least two (2) reqs fail, but at least one (1) req equally succeeds
- C-- at least three (3) reqs fail, but at least one (1) req equally succeeds

• **not compliant** (all requirements fail)

- D all reqs fail but some other criterion (of lesser importance) succeeds
- E no criterion succeeds

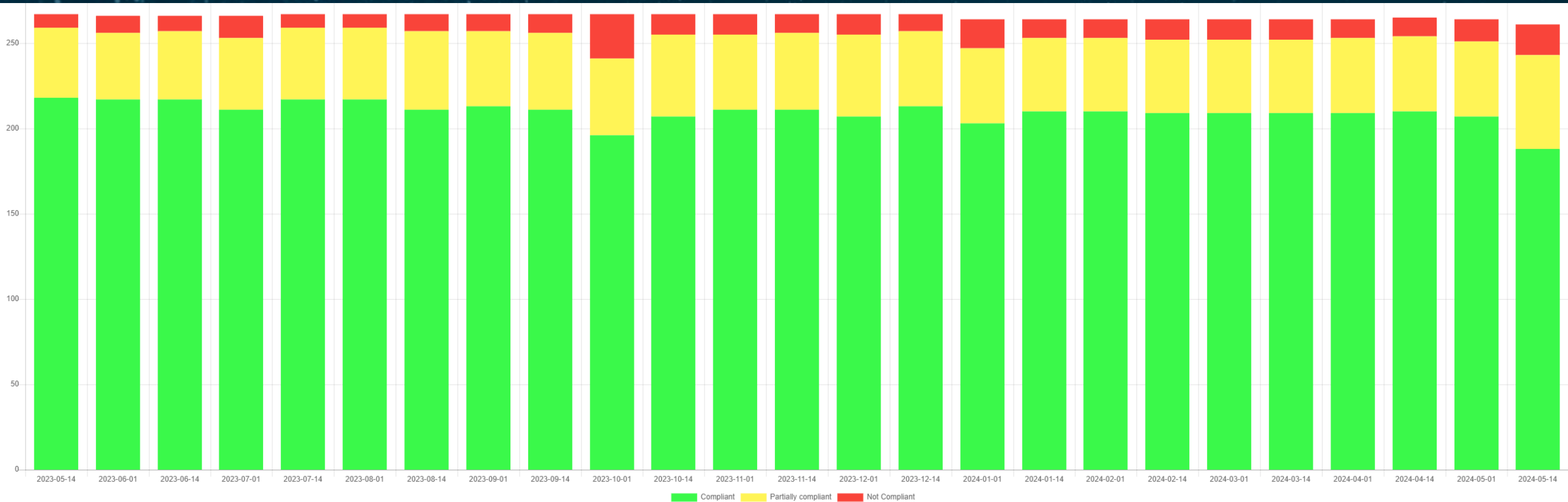
Criterion Type	
name	description
REQUIREMENT	Tests drawn from 'MUST' statements in the respective standard
WARNING	Tests drawn from strongly encouraged 'SHOULD' statements in the respective standard
RECOMMENDATION	Tests drawn from 'SHOULD' statements in the respective standard
EXTRA	Criteria not defined in the IVOA 'Service Validation' wiki

Simple Cone Search (SCS)



- ~1 700 new SCS services in the last year
- Incorrect UCDs are the most common issue
 - No ID_MAIN column OR more than one
 - Missing POS_EQ_RA_MAIN and POS_EQ_DEC_MAIN

SIAP – Simple Image Access Protocol v1.0



- The VOTable must contain a RESOURCE element, identified with the tag type="results"
 - `<RESOURCE type="results">`
- If your service only has data in a small section of the sky, consider adding the `<testQuery>` element to your VOResource, to allow full validation. See the [SimpleDALRegExt standard](#).



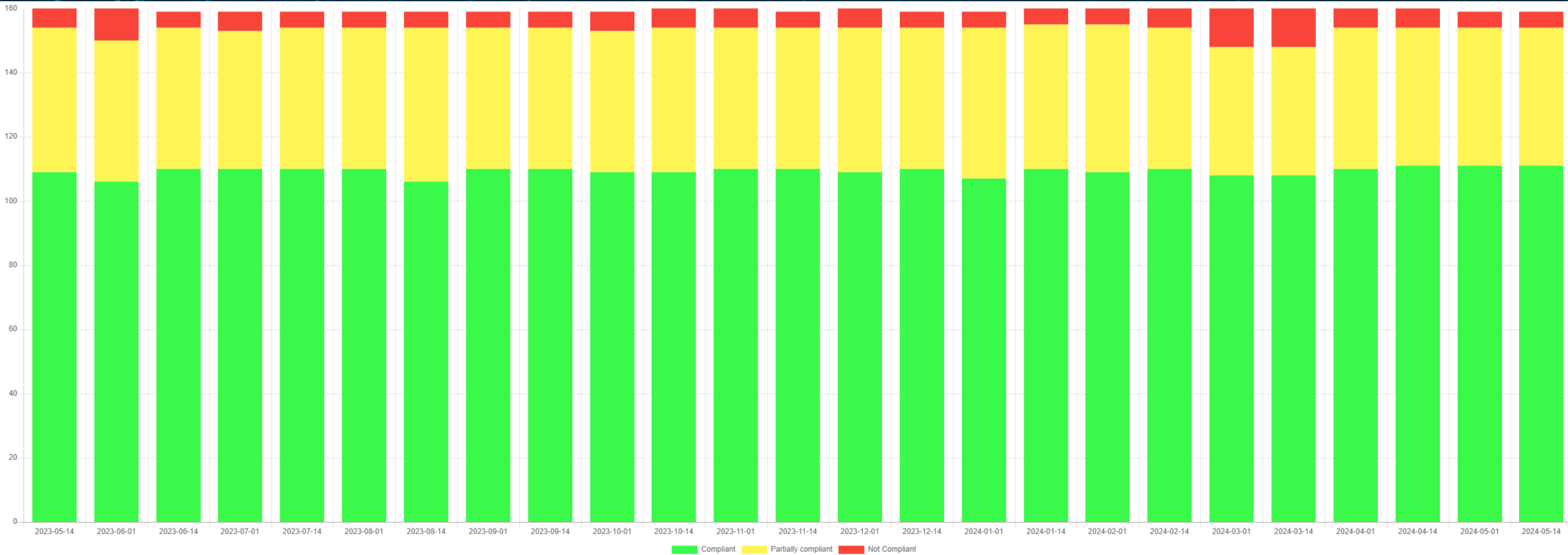
SIAP – Simple Image Access Protocol v2.0



- The partially compliant (yellow) services cannot get a higher rating because the validator cannot find any data to validate
- Service providers can address this by providing testQuery information as described in the [SimpleDALRegExt standard](#)



SSA – Simple Spectra Access Protocol v1.1



- Many services get the **partially compliant** rating because the validator cannot find any data to validate. Add `<testQuery>` to your VOResource XML to address this issue, see the [SimpleDALRegExt standard](#)
- The remaining issues originate from a small number of data providers who will be contacted individually



TAP - Table Access Protocol

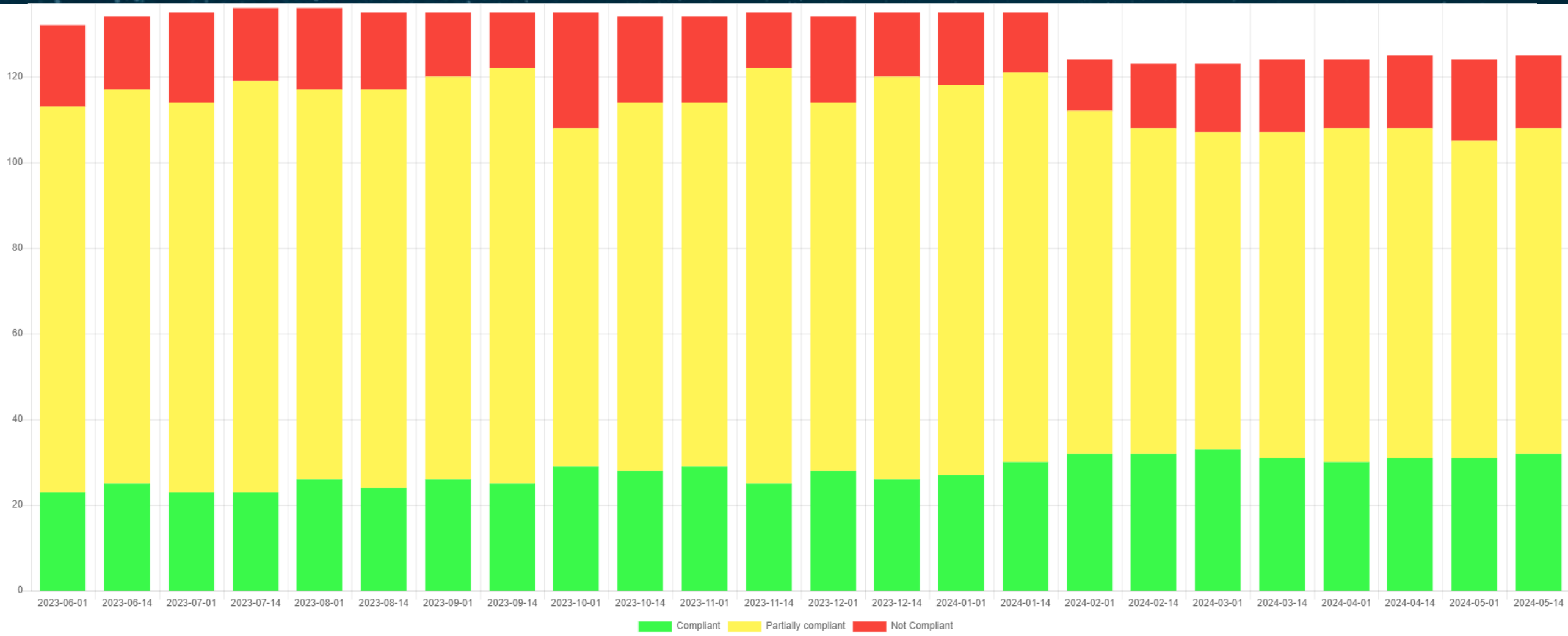
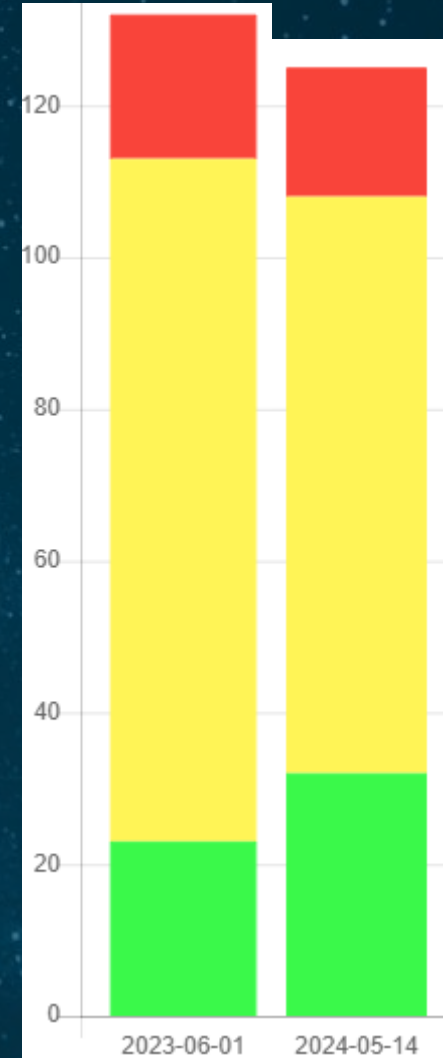


Table Access Protocol – Common problems

- Fully compliant services have steadily increased over the past year
- Most partially compliant services fail on only one requirement – But not the same requirement
- Most of the issues should be reasonably easy to fix for TAP service providers
- The most common issues:
 - Table column name is ADQL reserved word - Mostly ‘size’, ‘date’, ‘value’, ‘area’, ‘position’, ‘level’
 - Bad content-type for VOTable



- Good overall service compliance
- TAP service compliance is improving, but requires continued effort by TAP service providers
- If you are experiencing issues registering a resource or improving the compliance of your resource, please let us know, and we'll be happy to assist you.
- Reach the team at: esavo.registry@cosmos.esa.int