

Euro-VO Registry Weather Report

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- <https://registry.euro-vo.org>
- Reach the team at: esavo.registry@cosmos.esa.int
- Version 5 - VOSI updater
 - We periodically poll our users' VOSI endpoints to ensure the registered VOSI metadata is up-to-date

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

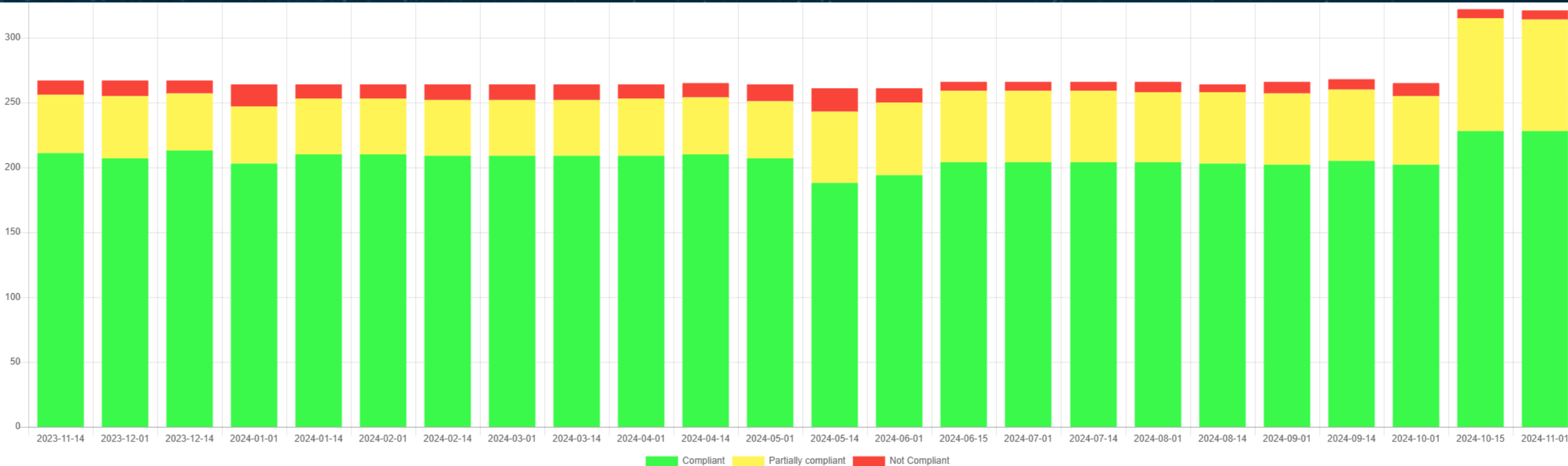
Criterion Type	
name	description
REQUIREMENT	Tests drawn from 'MUST' statements in the respective standard
WARNING	Tests drawn from strongly encouraged 'SHOULD' statements in the respective standard
RECOMMENDATION	Tests drawn from 'SHOULD' statements in the respective standard
EXTRA	Criteria not defined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

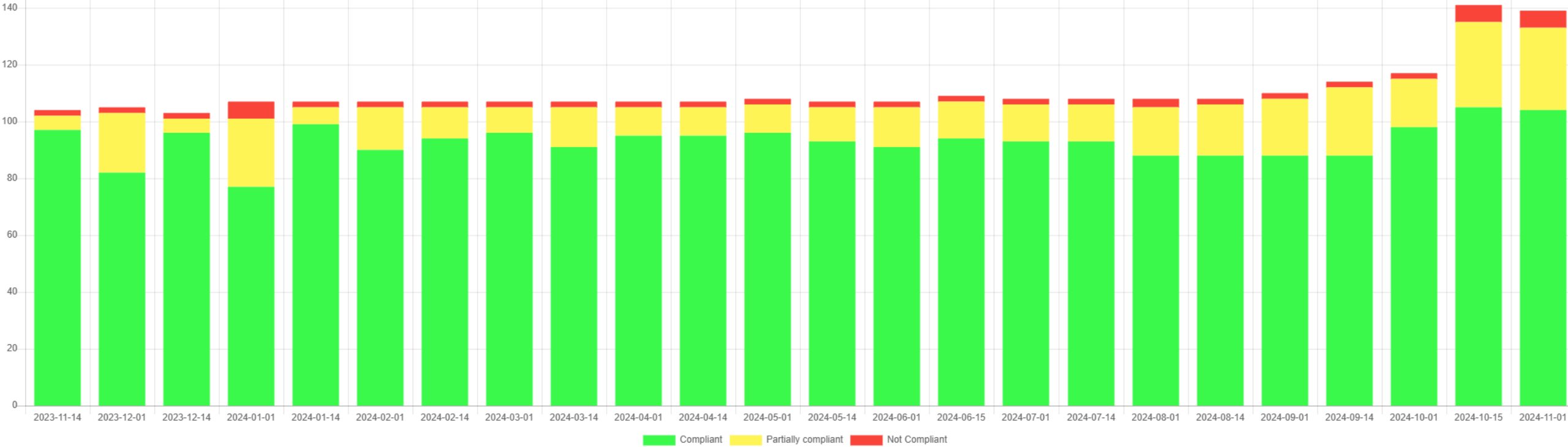
SIAP – Simple Image Access Protocol v1.0



- 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](#).



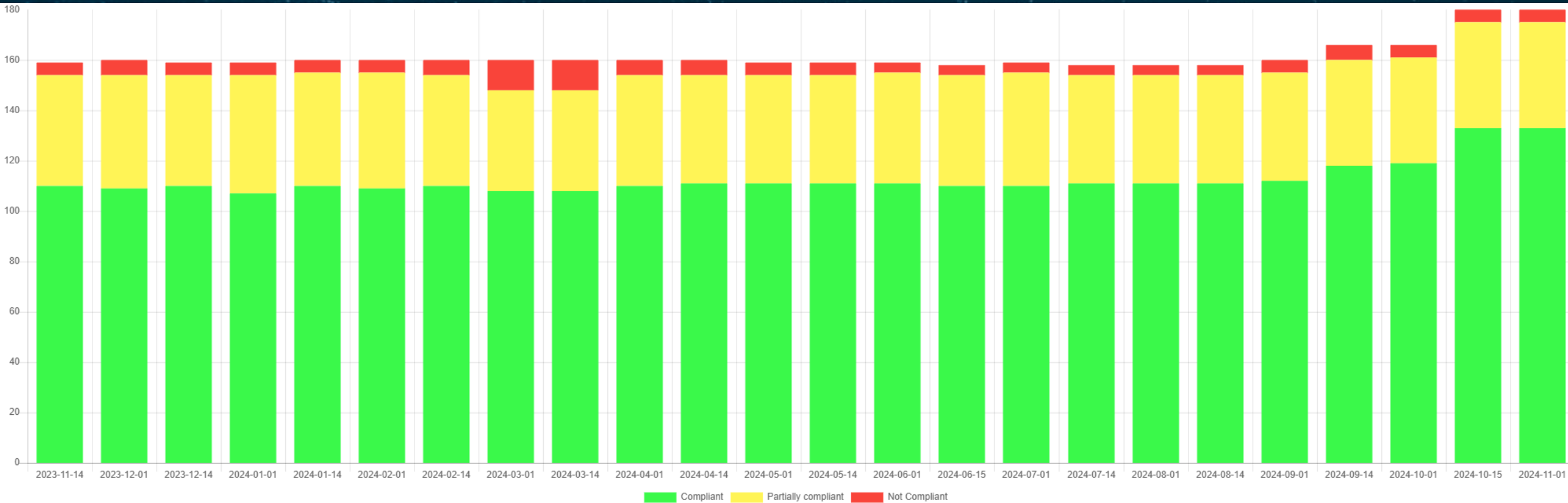
SIAP – Simple Image Access Protocol v2.0



- 85% of the red and yellow results come from one authority

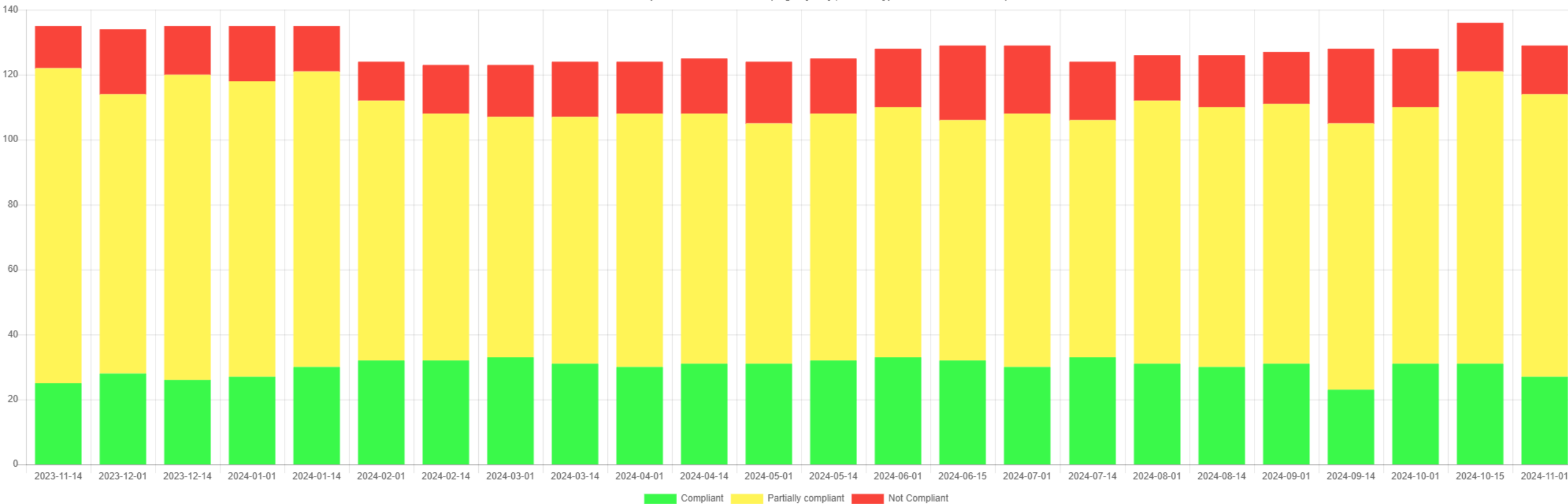


SSA – Simple Spectra Access Protocol v1.1



- 5 **non-compliant** services offline
- The **remaining issues** originate from a small number of data providers who will be contacted individually

TAP - Table Access Protocol



- Table column name is ADQL reserved word - Mostly 'size', 'date', 'value', 'area', 'position', 'level'
- Bad content-type for VOTable
- Multiple QUERY_STATUS INFOs
- Unknown value for QUERY_STATUS

- In 2025, we'll actively reach out to service providers to improve compliance and remove failing service
- 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