



IVOA Interoperability Meeting
College Park – June 2025

Obscore Extensions

DAL Point of View

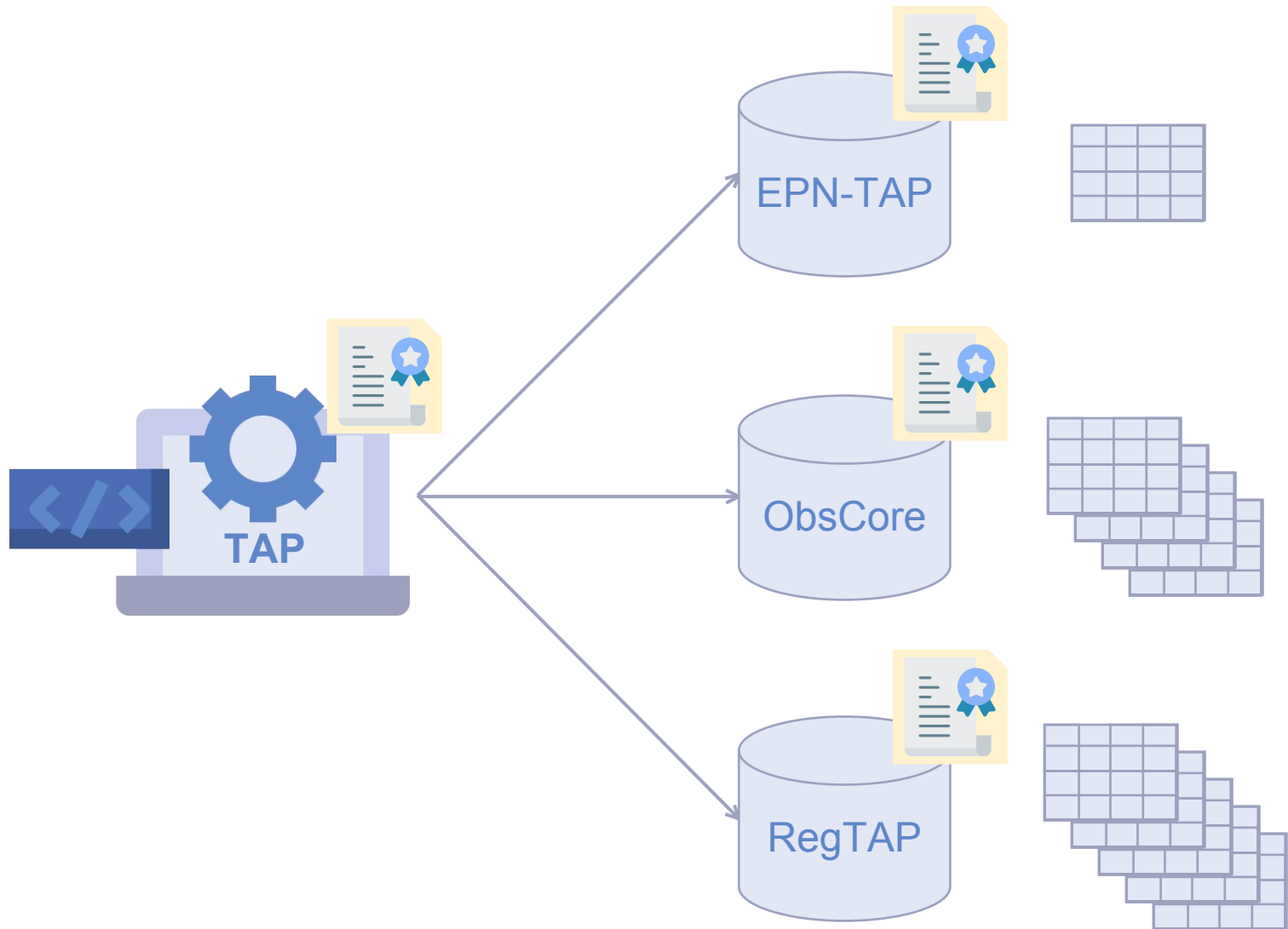


Grégory Mantelet
on behalf of the DAL WG



TAP

TAP is generic



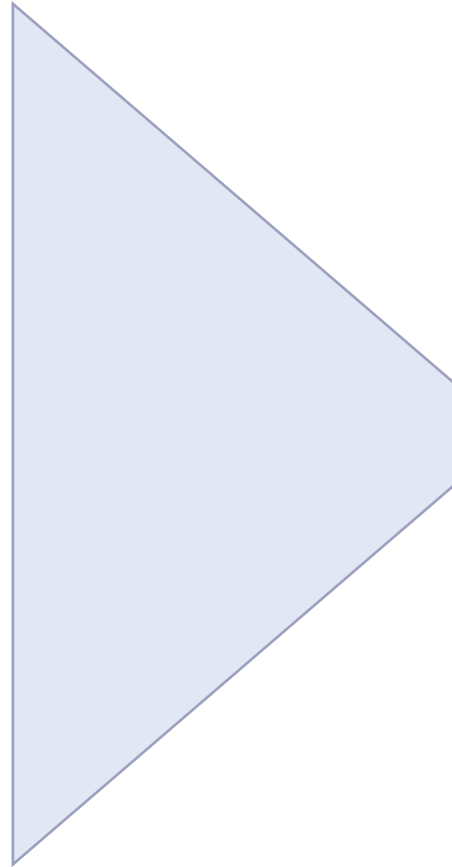
Several tables! What about a view?

	Obscore		

	Radio		

	Time		

	HEIG		



	All		

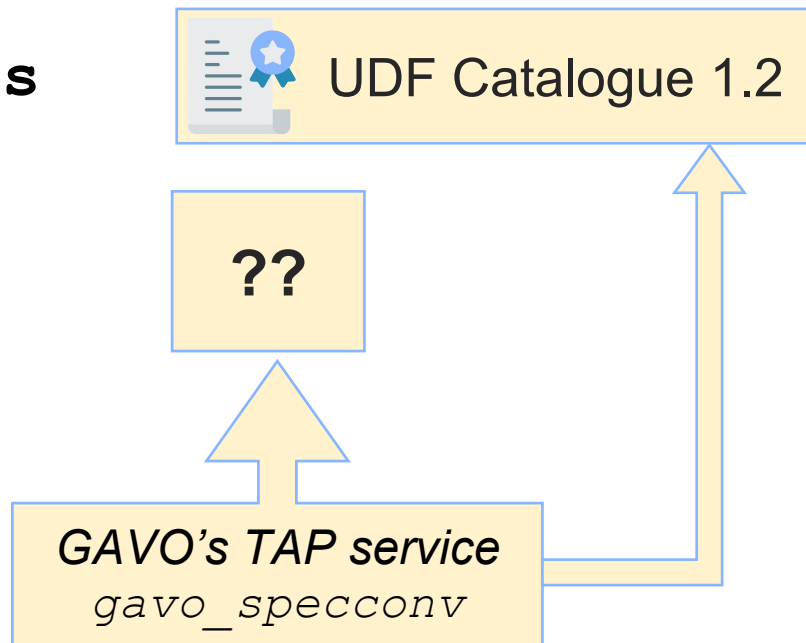
**Hard to define a
such view when
extensions are
optional.**

Need for UDFs? Standardize them!

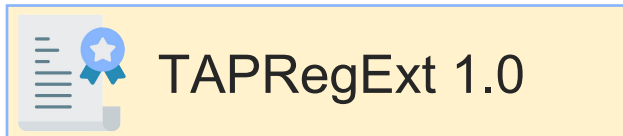
Radio Obscore Extension Note – §5

✓ `ivo_interval_overlaps`

`f` `ivo_specconv`



Declare data-models



`http:// .../capabilities`

```
<dataModel ivo-id="ivo://ivoa.net/std/ObsCore#core-1.1">  
  ObsCore-1.1  
</dataModel>
```

At least 2 solutions

1

`http:// .../capabilities`

```
<dataModel ivo-id="ivo://ivoa.net/std/ObsCore#radio-1.0">
  Obscore-Radio-1.0</dataModel>

<dataModel ivo-id="ivo://ivoa.net/std/ObsCore#time-1.0">
  Obscore-Time-1.0</dataModel>

<dataModel ivo-id="ivo://ivoa.net/std/ObsCore#he-1.0">
  Obscore-HighEnergy-1.0</dataModel>
```

2

`http:// .../capabilities`

```
<dataModel ivo-id="ivo://ivoa.net/std/ObsCore#core-1.1">
  ObsCore-1.1</dataModel>
```



```
SELECT table_name
FROM TAP_SCHEMA.tables
WHERE table_name = 'obscore_radio'
-- utype = '...'
```

?

**TAP clients,
Registry guys,
what is the best?**

MOC support

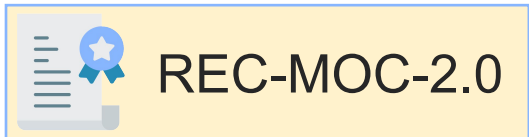
DAL standards: DALI, ADQL, TAP

MOC is supported in DALI



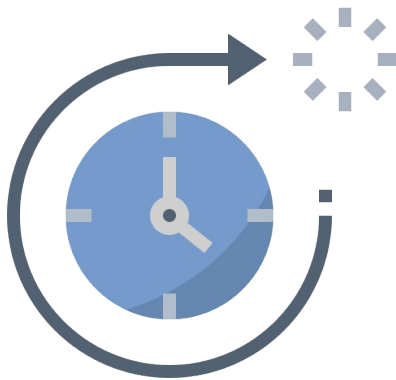
WD-DALI-1.2

```
datatype="char" arraysize="*" xtype="moc"
```



REC-MOC-2.0

```
1/1 2 4 2/12-14 21 23 25 8/
```



```
datatype="char" arraysize="*" xtype="tmoc"
```

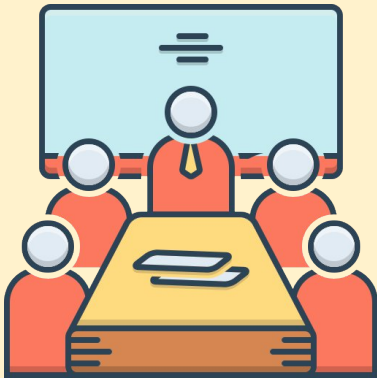
```
datatype="char" arraysize="*" xtype="fmoc"
```

```
datatype="char" arraysize="*" xtype="?moc"
```

ADQL is not yet MOC-ready

HE-Obscore Extension Note, §A-2.2

```
SELECT * FROM ivoa.obscore
NATURAL JOIN ivoa.obscore-hea
WHERE
  (CONTAINS(POINT(s_ra, s_dec), CIRCLE, 10.6847, +41.2688, 1.5) = 1)
AND ((dataprodect_type EQ 'timeseries') OR (dataprodect_type EQ 'pdf'))
AND (calib_level = 4)
AND (energy_min <= 300.0) AND (energy_max >= 7000.0)
AND (INTERSECTS(TMOC(17, t_coverage), ...) = 1)
```



DAL 1 (5 June 25 - 9:00 EDT)

ADQL discussions

- `MOC(order, [geom|literal])`
- `INTERSECTS`
- Well supported?
- ...

DAP *(when ready)*

DAP ♥ ObsCore

Anything else?

