

## Relational Registry (RegTAP) 1.0

RFC page	<a href="http://wiki.ivoa.net/wiki/bin/view/IVOA/RegTAP10RFC">http://wiki.ivoa.net/wiki/bin/view/IVOA/RegTAP10RFC</a>
Document page	<a href="http://www.ivoa.net/documents/RegTAP/20141030/index.html">http://www.ivoa.net/documents/RegTAP/20141030/index.html</a>
Start RFC	14-Mar-14
End RFC	15-Apr-14
Start TCG Review	28-Jul-14
End TCG Review	28-Aug-14
Start Exec Review	12-Nov-14
<b>REC date</b>	27-Nov-14

	YES	Yes, but	NO	Comments to be brought to the Exec
<b>WGs</b>				
<b>Apps</b>	1			Various comments taken into account in new version
<b>DAL</b>	1			
<b>DM</b>	1			
<b>GWS</b>	1			
<b>Registry</b>	1			
<b>Semantics</b>	1			
<b>TCG</b>	1			
<b>IGs</b>				
Data CP				
KDD				
Standards and Processes				
Theory				
Time Domain	1			
<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>0</b>	

<b>Reference Implementation 1</b>	An implementation of this is available on the TAP services at <a href="http://dc.g-vo.org/tap">http://dc.g-vo.org/tap</a> , <a href="http://voparis-cdpp.obspm.fr/tap">http://voparis-cdpp.obspm.fr/tap</a> , and <a href="http://gavo.aip.de/tap">http://gavo.aip.de/tap</a> (the basic underlying software is identical for those); there is <a href="http://reg.g-vo.org">reg.g-vo.org</a> that does DNS-based failover between these.
<b>Reference Implementation 2</b>	Another implementation (out of date with respect to XPath/utypes and some DB fields) is available as a TAP service at <a href="http://ia2-vo.oats.inaf.it:8080/registry">http://ia2-vo.oats.inaf.it:8080/registry</a> . Even if not fully compliant, the IA2 team (VObs.it) plans to update it to the REC version and fix some other compliance problems to keep it at least as an independent mirror of the GAVO service. This implementation uses both a programming language (Java) and RDBMS (MySQL) different from the GAVO one.
<b>Reference Implementation 3</b>	Implementations are also being worked on at ESAC and STScI; these were reported on in the Registry sessions of the Heidelberg, Waikoloa, and Madrid interops and should become public fairly soon. In particular, the ESAC implementation has been internally available in ESAC since at least 2014Q1 and has: (a) been validated against the validation suite mentioned above (b) tested / accessed using the TopCAT client.
<b>Reference Implementation 4</b>	On the client side, newer versions of TOPCAT already query against RegTAP. Also WIRR uses RegTAP as a backend.
<b>Implementation Validator</b>	A provisional validation suite as available at <a href="http://docs.g-vo.org/regtapval-2014-06.tar.gz">http://docs.g-vo.org/regtapval-2014-06.tar.gz</a>

<b>Recommendations to EXEC</b>	RegTAP 1.0 has gone through the REC, and has received unanimous approval from the TCG members. There are various reference implementations available both from the client and server side, as well as an implementation validator. The TCG recommends the IVOA Exec to approve RegTAP 1.0 as an IVOA Recommendation.
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