IVOA Registry Relational Schema (RegTAP) version 1.2	Registries provide a mechanism with which VO applications can discover and select resources - first and foremost data and services - that are relevant for a particular scientific problem. This specification defines an interface for searching this resource metadata based on the IVOA's TAP protocol. It specifies a set of tables that comprise a useful subset of the information contained in the registry records, as well as the table's data content in terms of the XML VOResource data model. The general design of the system is geared towards allowing easy authoring of queries. Version 1.2 adds tables to give the coverage in space, time, and spectrum and a tap_table view intended to replace GloTS. To make use of these features, we require a few optional ADQL features and the extra UDF ivo_interval_overlaps.			
RFC page	https://wiki.ivoa.net/twiki/bin/view/IVOA/RegTAP12RFC			
Document page	https://ivoa.net/documents/RegTAP/20240124/PR-RegTAP-1.2-20240124.pdf			
Start RFC	2024-02-01			
End RFC	2024-09-27			
Start Exec review	2024-09-27			
REC Date	2024-10-02			
	YES	NO	Abstain	Comments for Exec
TCG coordination	*			
Working Groups				
Apps	*			
DAL	*			
DM	*			
GWS	*			
Registry	*			
Semantics	*			
Interest Groups				
DCP	*			
Education				
Knowledge Discovery				
Operations	*			
Radio				
Solar System	*			
Time Domain				
Committees				
Standards & Processes				
TOTAL	10	0	0	
Reference Implementation Overview	Server-side implementations exist in the TAP services at http://reg.g-vo.org/tap and https://registry.euro-vo.org/regtap/tap. Client-side code exploiting the new spatial tables is present in pyVO; WIRR also has constraints on coverage in space, time, and spectrum. Support for tap_tables is less common; however, once the data providers fix their metadata records, the content of tap_tables essentially is equivalent to what we already have in GloTS, and hence the editor would argue that all clients using GloTS (e.g., TOPCAT) count as reference implementations of tap_tables. A prerelease version of TOPCAT available at https://www.star.bristol.ac.uk/mbt/releases/topcat/pre/topcat-full_regtap12.jar makes use of rr.tap_tables for service discovery: in the TAP window the TAP|Service Discovery submenu has an option "RegTAP 1.2". If this is selected (instead of the default option "GloTS") then searching for services in the "By Table Properties" tab uses the rr.tap_tables table from GAVO DC rather than GloTS.			
Reference Implementation #1	http://reg.g-vo.org/tap			
Reference Implementation #2	https://registry.euro-vo.org/regtap/tap			
Validator Implementation	A validator is part of the source distribution at https://github.com/ivoa-std/RegTAP. See the validator subdirectory. Note that it requires a registry seeded with the data provided, and hence the suite can only be used by the service operators.			
Recommendation to Exec	RegTap-1.2 updates the Relational Registry schema with enriched metadata on observational axis coverage and tabular content. These changes are important additions to allow better filtering of the resources (discovery/findability) in a system that counts tens of thousands of registered resources. ADQL and UDF driven updates to the interface functionalities complement the above changes. Reference implementations are in place and a validator is distributed alongside the document's source. All review comments and points were properly considered and answered. TCG coordination approves this update of the specification and recommends Exec to approve RegTap-1.2 as an IVOA Recommendation.			