



**TDWG Website
and
Collaboration Environment**

Systems Administrator's Manual

Resource (Schema) Repository

<http://rs.tdwg.org/>

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1 Resources (Schema) Repository (rs.tdwg.org)

The web space under <http://rs.tdwg.org> is reserved for storage of machine readable resources that are normative parts of TDWG standards, such as XML Schemata, RDF(S) documents, OWL ontologies.

Other kinds of documents, especially those intended for human readers, such as standards documentation, primers, guides, usage examples, and software, must be stored elsewhere, on the subgroups WebDAV space, for example.

Each TDWG group may have a directory under this web space that they can use to publish machine readable documents associated with their standards. There are two special directories called `ontology` and `ontdev` that are reserved for management of TDWG ontology (production and development versions of it, respectively).

The Schema Repository is hosted on the **condor** server in:

```
condor: /var/www/dav/
```

There are several components that make up the Schema Repository:

Component and Description	Directory (within /var/www/dav)	URL
Subversion repository Used to keep the history of changes to the files in the Schema Repository.	<code>./dav_rep/</code>	https://rs.tdwg.org/
Publicly accessible Schema Repository Web address of the repository for public access via HTTP. It is a working copy of the Subversion repository that gets updated after every commit.	<code>./public/</code>	http://rs.tdwg.org/
Configuration and Logs The most important file in this directory is <code>access_control.txt</code> which defines which user has write access to the what portions of the repository.	<code>./conf/</code>	Not Applicable
RSS Feed Unfinished set up to provide SVN log messages via RSS feed.	<code>./rss/</code>	Not Available

The **subversion repository** is used to keep a history of changes to the source files. Only a few users have write permissions to this space. Permissions are controlled by the Subversion access control file at:

```
condor: /var/www/dav/conf/access_control.txt
```

To give write permission to a user on a specific subdirectory, use the following template:

```
[/some_directory]
JohnDoe = rw
```

The template above gives user `JohnDoe` (WikiName specified during registration at the TDWG website) read and write permission (`rw`) on a directory called `some_directory`.

Any user from **condor server** who belongs to the **apache group** can manage the Schema Repository. That is because the directory `/var/www/dav` and its contents give write permission to anyone in the **apache group**.

The general public (i.e. applications) have access to the Schema Repository via HTTP at <http://rs.tdwg.org/>. This is a virtual directory that sits on the apache web server also in **condor**. This virtual directory is actually a Subversion working copy that gets automatically updated every time changes are committed back to the repository. This is implemented by a post-commit hook in the SVN repository at:

```
condor:/var/www/dav/dav_rep/hooks/post-commit
```

Users can also manage their group's repository using WebDAV clients as described in:

<http://www.tdwg.org/membership/available-services/schema-repository/>

However, users should prefer to manage the repository using a SVN client because-

- A SVN client gives more control to the user, who can commit several changes to the repository in a single commit and provide meaningful log messages. When using WebDAV, a commit is performed automatically (with an empty log message) every time a file is saved.
- Recent Windows XP updates have changed the way Web Folders are implemented preventing users from connecting to WebDAV folders that are served by Apache (which is TDWG's case). Only Mac and Linux clients may connect to the repository using WebDAV.

The apache configuration for the Schema Repository is at:

```
condor:/etc/httpd/conf.d/20_webdav.conf
```

The relevant bits of the apache configuration for the Schema Repository are:

- A Virtual Host is defined for HTTP (port 80) and HTTPS (port 443) access, respectively.
- The repository is also a WebDAV folder with autoversioning turned on.
- Users are authenticated against TDWG LDAP server for HTTPS access.
- There is an alias from <http://www.tdwg.org/schemas/> to <http://rs.tdwg.org/> to make namespaces used (guessed) by ABCD valid.
- The Subversion repository used for TDWG Infrastructure Project software development (<https://rs.tdwg.org/svn/tdwg-dev/>) is configured there as well.

2 Summary of TDWG Services

Service	Public URL	Admin URL	Paths on File System	Software
Main TDWG Website	http://www.tdwg.org	http://www.tdwg.org/typo3	falcon:/var/www/typo3/tdwg	Typo3 v4.0.4 (same instance for all 3 websites) Typo3 v4.1.1
2006 Annual Meeting Website	http://tdwg2006.tdwg.org	http://www.tdwg.org/typo3	falcon:/var/www/typo3/tdwg	
2007 Annual Meeting Website	http://www.tdwg.org/conference2007	http://www.tdwg.org/typo3	falcon:/var/www/typo3/tdwg	
LSID Website	http://lsids.sourceforge.net/	http://lsids.sourceforge.net/typo3	FIXME	
Mailing Lists	http://lists.tdwg.org		condor:/var/lib/mailman/	GNU Mailman
Wiki	http://wiki.tdwg.org	http://wiki.tdwg.org	condor:/var/www/html/twiki	TWiki
Resources (Schema) Repository	http://rs.tdwg.org/	https://rs.tdwg.org/	condor:/var/www/dav/ (FIXME)	Subversion (mod_svn)
	http://www.tdwg.org/schemas (the latter is an alias used by ABCD)	SVN repository can only be managed via shell as root		
Subgroup WebDAV Repositories	http://www.tdwg.org/dav/	N/A (shell only)	condor:FIXME	Apache mod_dav
TDWG Source Control	http://rs.tdwg.org/svn/tdwg-dev/	https://rs.tdwg.org/svn/tdwg-dev/	condor:/var/www/svn/ (FIXME)	Subversion (mod_svn)
LSID HTTP Proxy	http://lsid.tdwg.org	N/A (shell only)		
LSID DNS SRV Service	N/A	N/A (shell only – via tinydns)	condor:/var/tinydns/root/data	Djdns/tinydns