

tranSMART 17.1 Server release

Known as the tranSMART 2017 server, core-only or backend release.

Contents:

- [Installation](#)
- [REST API V2](#)
- [Database](#)
- [Other topics](#)

Child pages:

- [Manual installation of glowing bear on CentOS \(The Hyve\)](#)
- [tranSMART Pro 17.1 Project Overview and Resources](#)




The code for the tranSMART 2017 Server release is currently released in **beta** at <https://github.com/transmart-foundation/transmart-core>

Installation

- Installation and configuration guide: <https://github.com/transmart-foundation/transmart-core#build-and-run>.
- A hosted version of the tranSMART Server backend + the transmartApp user interface is available at <http://transmart.thehyve.net> (login with demo-user/demo-user).

REST API V2

With the [tranSMART Pro 17.1 Project Overview and Resources](#) a new version of the [tranSMART REST API](#) was created: REST API version 2 (v2). This REST API still allows the same [OAuth authorisation and authentication](#), but includes new calls to query on all the new dimensions, including time series, samples (via modifiers) and cross-study concepts.

- The documentation can be generated from the code at <https://github.com/transmart-foundation/transmart-core/blob/master/open-api/README.md>.
- A hosted version can be found at <http://transmart.thehyve.net/open-api>. You can login by clicking Authorize at top-right and logging in to the tranSMART server backend with demo-user/demo-user. After this the API calls on the bottom can be executed, right from the web page.
 -  Please keep in mind the tranSMART App user interface will only work with data loaded without all new dimensions. Please look at [\[candidate\] Glowing Bear](#) for a user interface that does allow use of time series and samples.

Database

- Available for browsing here: <https://thehyve.github.io/transmart-core-db-doc/>
 - This database documentation can be generated with SchemaSpy with the code at: <https://github.com/transmart-foundation/transmart-core/tree/master/transmart-data/db-doc>.
- Database definition (Data Definition Language): <https://github.com/transmart-foundation/transmart-core/tree/master/transmart-data/ddl>
- Upgrade scripts from 16.2 to 17.1:
 - <https://github.com/transmart-foundation/transmart-core/tree/master/transmart-data/updatedb/release-17.1>
 - <https://github.com/thehyve/transmart-core/blob/transmart-17.1-RC/docs/upgrade.md>
- For differences between i2b2 1.7, tranSMART 16.2 and tranSMART 17.1, download transmart-core repository and open in browser: <https://github.com/transmart-foundation/transmart-core/blob/master/transmart-data/db-doc/17.1-table-changes/export.html>.

Other topics

- Adding DeNovo transcripts: <https://wiki.transmartfoundation.org/display/transmartwiki/Adding+a+de+novo+RNA-Seq+transcript>
- Ontology mapping: https://github.com/transmart-foundation/transmart-core/blob/master/transmart-batch/docs/data_formats/ontology-mapping.md