

BBTalk - BackBone Thesaurus Submission and Connection Management tool

User Manual

Version 2.0

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Status: Final (revision 13)
Last Modified: 28 Feb 2019

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1. Introduction

What is the BackBone Thesaurus

The BackBone Thesaurus¹ (hereafter called BBT) is a coherent overarching thesaurus for the humanities, a “backbone” or “metathesaurus”, under which all the vocabularies and terminologies in use in the domain can be aligned. Therefore, this work focuses on identifying the top-level-terms (facets and hierarchies) that will become its common basis, meeting the demands for intersubjective and interdisciplinary validity. The proposed approach is bottom-up; top-level terms are developed by adequate abstraction from existing local terminological systems.

The BBT Submission and Connection Management tool functionalities

The BBT Submission and Connection Management tool (hereafter called BBTalk²) is a communication system, developed by FORTH-ICS³ that supports discussions regarding the changes (related to facets, hierarchies and concepts) proposed for the current version of the BackBone Thesaurus, hereafter called submissions. It also supports the implementation of changes on BBT and the release of new BBT versions, based on related submissions, as well as the comparison between versions. Finally, the system allows local thesauri maintainers to connect their thesauri to the BBT.

In more detail, BBTalk provides the following functionalities:

(Related to submissions)

- **Create submissions (suggesting changes for the BBT):** it is used by *local thesauri maintainers* when they want to suggest changes for the BBT; it provides a form by which they can request modifications/additions/deletions regarding the terms of the thesaurus.
- **Review submissions:** it is used by the *curators* to browse and review submissions, and decide whether they agree, or disagree, to the suggested changes and implement/ reject/ postpone them.
It is also used by *thesaurus reviewers* that take part on specific change-related discussions.
- **Forward submissions to reviewers:** it allows *curators* to forward a submission to users that are experts in specific domains (*reviewers*), for further consultation.
- **Keep track of submissions history:** it keeps track of the history of the submissions (related past discussions).
- **Notifications:** it notifies all the interested parties, about the progress of a submission.

(Related to connections of local thesauri to the BBT)

- **Assist connections of local thesauri to the BBT:** it assists *local thesauri maintainers* to connect (and remove connections) their thesauri terms to BBT

¹ <https://backbonethesaurus.eu>

² <https://backbonethesaurus.eu/BBTalk>

³ <https://www.ics.forth.gr>

terms. Publishing a new version of the BBT may also affect the local thesauri that are connected to BBT, therefore *local thesauri maintainers* need to be notified.

- **Notifications:** it provides a notification mechanism that enables *local thesauri maintainers* to receive information about the release of the new version of the BBT.

(Related to new and past versions of BBT)

- **Create new versions of BBT:** it is used by the *curators* to implement changes in the BBT and create new versions of the BBT, based on the submissions and the following discussions.
- **Provide access to previous BBT versions:** facilitates the *curators* decisions by providing access to the previous versions of the thesaurus (along with the history of all the submissions)
- **Compare BBT versions:** it enables users to compare different versions of the BBT.
- **Notifications:** it notifies all the interested parties, about the release of the new version of the BBT.

(User management)

- **User profile and contact info management:** it provides users with the possibility to edit their personal profile information, as it also provides storage for user contact info.

2. User Roles

BBTalk can be accessed only with a valid username and password. Depending on the user's role, the user will have different rights. The different user-roles supported by the system are:

- **Contributors:** The *contributors* are persons who wish to comment or suggest changes on the BBT, requesting additions, deletions or modifications on the BBT terms and their relations. Contributors can also be *local thesauri maintainers* who wish to link their local thesauri terms to terms in the BBT. Furthermore, *contributor* could be any person who is interested in browsing the BBT terms, their history of submissions and their connections with other thesauri terms.
- **Curators:** The *curators* are responsible for the maintenance of the BBT and the creation of new versions of BBT. Their role is to make changes to the thesaurus by consulting the submissions concerning the current and the previous versions of the thesaurus. They might also ask the consultancy of the thesaurus *reviewers* in order to take a decision about a specific change request. *Curators* can also act as *contributors* do: add submissions and connections, browse the BBT terms, their history of submissions and their connections.
- **Reviewers:** The *reviewers* review submissions forwarded by the *curators* that are pertinent to their expertise (domain of knowledge), and respond back to the *curators* with proposed changes to the BBT. *Reviewers* can also act as

contributors do: add submissions and connections, browse the BBT terms, their history of submissions and their connections.

- **Administrator:** The system *administrator* is responsible for the maintenance of the system information and the system software: manage the new users, take and restore backups, etc. The *administrator* can act as a *curator* does: maintaining the BBT and the creation of new versions of BBT, as well as add submissions and connections, browse the BBT terms, their history of submissions and their connections.

Users are welcome to sign up as is described in the following chapter.

3. Signing-in & signing-up

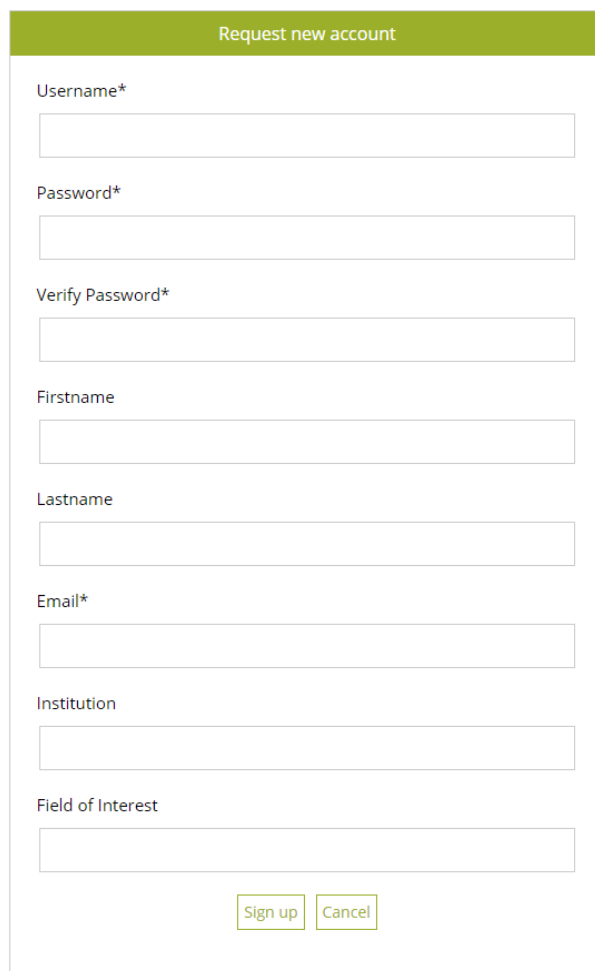
In the login page (*Figure 1*), the user has sign-in to the system using his/her username or e-mail and password. If the user is not registered to the system, he/she can request to sign up by creating a new account.

Figure 1: Login Page

The system will prompt a registration form (*Figure 2*) for acquiring user related information and registers the user under the role of *contributor*. The registration form contains the following fields:

- **Username:** This obligatory field denotes the name the user wants to be displayed in the system. Once given cannot be changed.
- **New password:** Add the new user password (obligatory field).
- **Verify password:** Verify that the new password is typed correctly (obligatory field).
- **Firstname and lastname:** User first and last name (not obligatory fields).

- **E-mail address:** The e-mail should be unique to the system (users cannot share the same e-mail address). The e-mail is used by the system, to verify the user existence (double opt-in) and in order to allow the system to send automatic messages to the user. This is an obligatory field.
- **Institution:** This field may contain information about the institution of the user (not obligatory field).
- **Field of interest:** This field may contain information about the research interests of the user (not obligatory field).



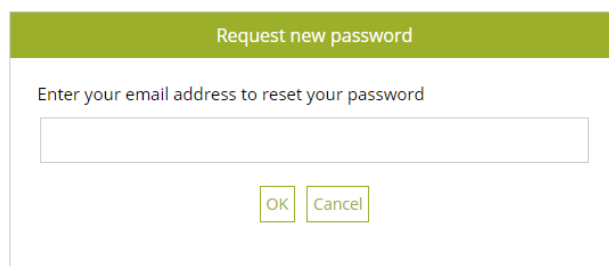
The image shows a 'Request new account' form. It has a green header bar with the text 'Request new account'. Below the header, there are several input fields: 'Username*' (required), 'Password*' (required), 'Verify Password*' (required), 'Firstname', 'Lastname', 'Email*' (required), 'Institution', and 'Field of Interest'. At the bottom of the form, there are two buttons: 'Sign up' and 'Cancel'.

Figure 2: User Registration Form

Notice that this information (except Username) is considered personal information and is visible only to the user, the *curators*, the *reviewers* and the *administrator*, or used by the system without public display.

By selecting the “Sign up” button, the user receives a special confirmation e-mail in which he/she needs to confirm his/her wish to register to the system (double opt-in registration).

In case the user has an account, but he/she does not remember his/her password, a form is provided to re-assign a new password to the user (*Figure 3*). The system will send a new password to user’s e-mail address.



The form has a green header bar with the text "Request new password". Below the header, there is a text prompt "Enter your email address to reset your password" followed by a single-line text input field. At the bottom of the form, there are two buttons: "OK" and "Cancel", both with green borders.

Figure 3: Request New Password Form

4. Description of the user Interface

Related user role: all (applies to the entire chapter apart from paragraphs with other indication in the beginning)

The **main area** of the system is divided in the following parts (Figure 4):

The **header**, which includes the upper right menu. The **upper right menu** includes the "Notifications" section with access to all system notifications, the "About" section with a general introduction to the system, the "Help" section with the *User Manual* and a *Quick User Guide* options and the "User Account" section with *Account Settings* and *Logout* options.

The **main menu** is located under the header. The main menu contains four tab-sections: Backbone Thesaurus, Submissions, Connections and Users. Briefly, those tab-sections consist of the following content (the functionality provided by each tab-section is described in detail in the following chapter):

- **BackBone Thesaurus** tab includes the tree of terms of the BackBone Thesaurus. From the tree, the user can navigate to the term forms where he/she can find more information about each term. Here the user can also create a new connection or a new submission for change on a specific term. This tab also provides functionality related to the BBT versions (e.g. release a new version or compare two versions) and term-search based on specific criteria.
- **Submissions** tab includes a list of all submissions on the BBT terms. From this list the user can navigate to the submission forms where he/she can find more information about each submission and maybe leave a comment. Here the user can also create a new submission or search for a submission based on specific criteria.
- **Connections** tab includes a list of all connections made from the BBT terms to the terms of local thesauri. From this list the user can navigate to the connection forms where he/she can find more information about each connection. Here the user can also create a new connection or search for a connection based on specific criteria.
- **Users** tab (*Related user role: curator, reviewer, administrator*) includes a list of all user accounts. From this list only the *curator*, the *reviewer*, or the *administrator* can navigate to the user forms where he/she can find more

information about each user. Here the *administrator* can also change the role of a user, or delete a user account.

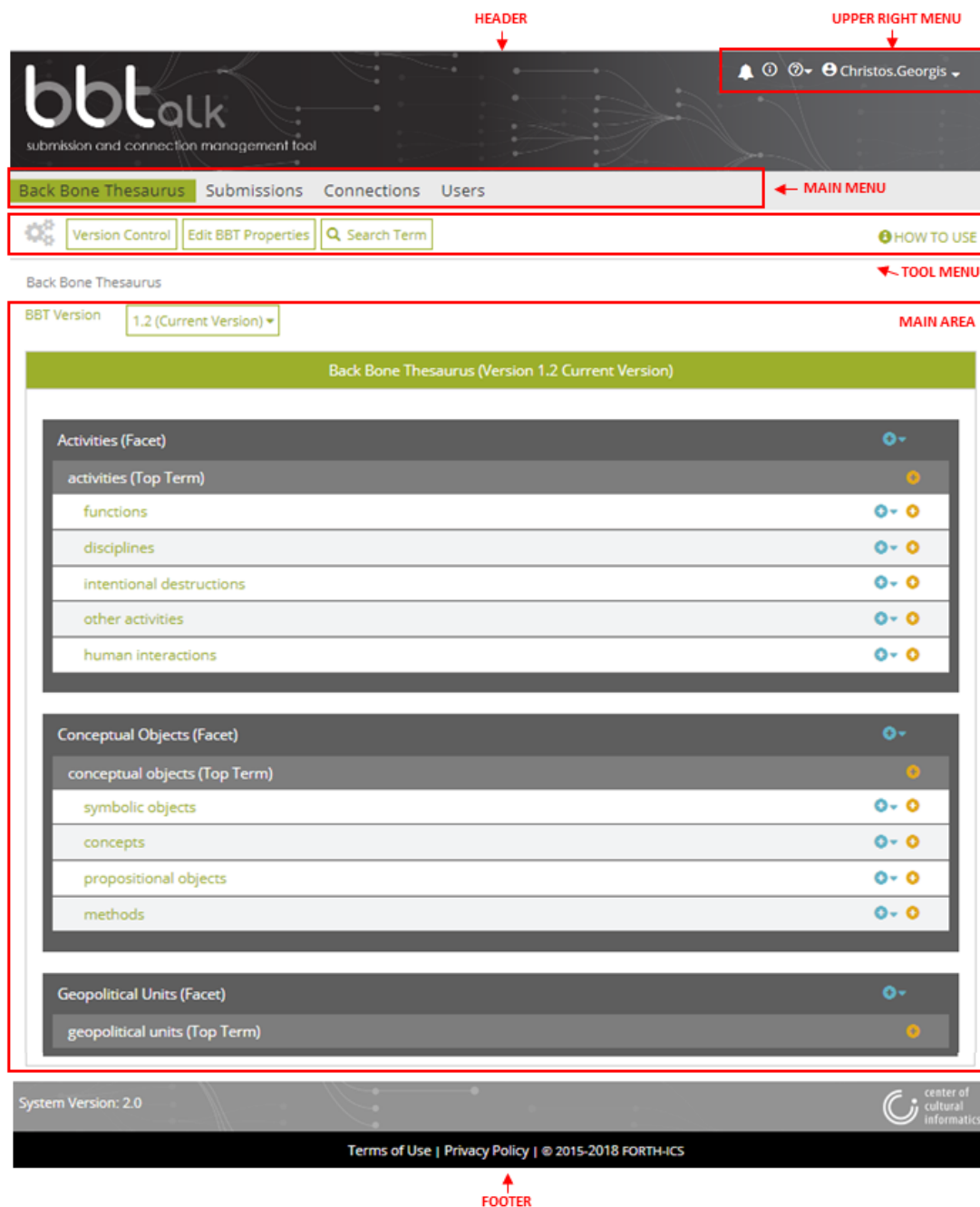


Figure 4: Interface Description

The content of the tab-sections described above appears in the **main area** of the system.

The **tool menu** is located on the top part of the main area. The tool menu includes buttons that support specific functions depending on the tab-section that is selected and the user role (e.g. in Figure 4, through the BackBone Thesaurus tab, “Version Control” and “Search Term” functions are available to all users, while “Edit BBT Properties” function is only available to the *curators* and the *administrator*). It also

includes a “How to use” button where users can find information on how to use the specific tab-section.

The **footer** is located underneath the main area. In the footer the version of the system is displayed.

5. System Functionality

5.1 Backbone Thesaurus

Users can browse and search the terms of the official release of the BBT, as well as of older versions, using the Backbone Thesaurus tab-section. Users can also view differences between two BBT versions. *Curators* can also make changes to the BBT terms and facets, generate new versions of BBT, as well as edit BBT properties information.

Each term can be viewed by a term form with all the related information. It is possible to make submissions for changes on specific terms and additionally connect those terms with local thesaurus terms.



Figure 5: Backbone Thesaurus tool menu buttons (available to the administrator)

BackBone Thesaurus tool menu includes (Figure 5) the following buttons: “Version Control” button (see section “5.1.4 Version control”) and “Search Term” button (see section “5.1.3 Search Term”) available to all users, “Implement New Release” button (see section “5.1.5 Implement New Release”) and “Edit BBT Properties” button (see section “5.1.6 Edit BBT Properties”) available to the *curators* and the *administrator*, and finally “Generate RDF files” button (see section “5.1.7 Generate RDF files”) available only to the *administrator*. In Figure 6 above, the role of the current user is *contributor*, thus only “Versions Control” and “Search Term” buttons are available.

5.1.1 Backbone Thesaurus – tree view

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When the Backbone Thesaurus tab-section is selected the tree of the BBT terms appears (Figure 6). “Facets” appear in a dark grey line, while the “top term” of the facet itself appear in a lighter grey line. All terms that belong under a facet (“hierarchies”), appear in a light colored line beneath the facet. All lines in the BBT tree are links that lead to the term forms. On the right side of each term line are placed two buttons: one for creating a new submission on the specific term (blue cross button) and one for creating a new connection with a local thesaurus term (orange cross button).

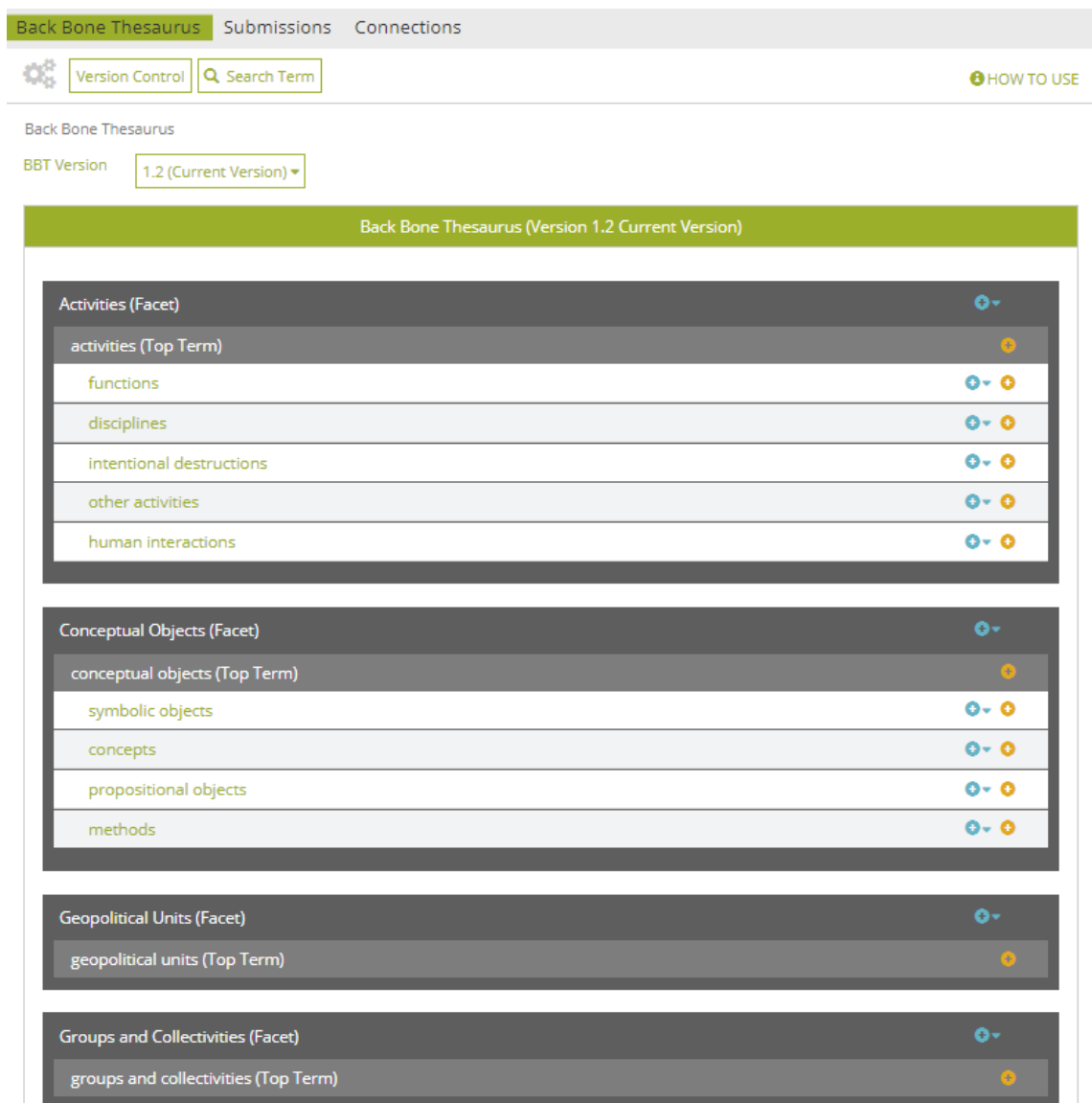


Figure 6: BackBone thesaurus – tree view

5.1.2 BBT term form - view mode

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

In the tree of the BBT terms each line is a link that on click will lead to the BBT term form (Figure 7). A term form includes information related to the term such as: Label, URI, Scope Note, Facet, Broader, Narrower Term Examples.

The screenshot shows the 'Back Bone Thesaurus' interface. At the top, there are tabs for 'Back Bone Thesaurus', 'Submissions', and 'Connections'. Below these are buttons for 'Version Control' and 'Search Term', and a 'HOW TO USE' link. The main content area is titled 'Back Bone Thesaurus | Term: symbolic objects'. Below this is a green header bar with 'Term: symbolic objects' and a 'view mode' link. The 'BBT Version: 1.2' is displayed. A 'Scope Note' section contains a detailed definition of symbolic objects. Below this is a table with fields: 'URI' (https://vocabs.dariah.eu/bbt/Concept/000021), 'Facet' (Conceptual Objects), 'Broader' (conceptual objects), and 'Narrower Term Examples' ('Information objects ', 'structural parts of information objects'). At the bottom, there are two buttons: 'Create new submission for' and 'Create new connection', each with a corresponding link to view related submissions or connections. A 'View Term History' link is also present.

Figure 7: BBT Term form – view mode

Underneath the basic information are located the buttons for making a new submission to the specific term (described in detail in section “5.2.3 Create a new submission”), or for connecting the BBT term with a term of a local thesaurus (described in detail in section “5.3.2 Create a new connection”). Next to each button exists a link, which opens the list of all related submissions to the term and the list of all related connections respectively. Those lists are described in detail in sections “5.2.2 Submissions list description” and “5.3.1 Connections list description”.

Underneath the two buttons there is a link for displaying the history of the term. The changes in the displayed term version in comparison to older or newer term versions are presented in this area. The user is provided with links that lead term-forms displaying older or newer term versions.

5.1.2.1 View an obsolete term

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The system handles terms that existed in previous versions, but are not present in the current version of the BBT: they may be deleted terms or renamed terms, or even terms that were split or merged into other terms. Hereafter these terms are called *obsolete terms*.

Back Bone Thesaurus | Term: human interactions

Term: human interactions

view mode

BBT Version: 1.4

Scope Note	This term classifies intentional activities carried out by at least one actor causing or changing phenomena or states of affairs on the social, political, financial, cultural and intellectual level.
URI	https://vocabs.dariah.eu/bbt/Concept/000011
Facet	Activities
Broader	activities
Narrower Term Examples	"social events, confrontations or conflicts", "political", "social and economic occurrences", "group management"

[View table of related submissions](#)

[View table of local thesauri connections](#)

[Hide Term History](#)

History of Term: human interactions

Version	Change Type	Old Term	New Term
1.4 → 1.5	Merge	functions1 , human interactions	t1
1.2	New		human interactions

Figure 8: Obsolete term form

The system enable searching and displaying of obsolete terms. There is a special term-form for obsolete terms, colored with a de-saturated green color (Figure 8) that includes information related to the obsolete term such as: Label, Version, Scope Note, URI, Facet, Broader, Narrower Term Examples.

Below the basic information are located two links, which open the list of all related submissions to the term and the list of all related connections respectively (described in detail in sections “5.2.2 Submissions list description” and “5.3.1 Connections list description”).

Underneath, there is a third link for displaying the history of the obsolete term. The changes in the displayed obsolete term version in comparison to older or newer term versions are presented in this area. The user is provided with links that lead term-forms displaying older or newer term versions. In the fictional example of Figure 8, we see that term “human interactions” was introduced in v1.2, while in v1.5 the term was merged with term “functions1” to produce the new term “t1”.

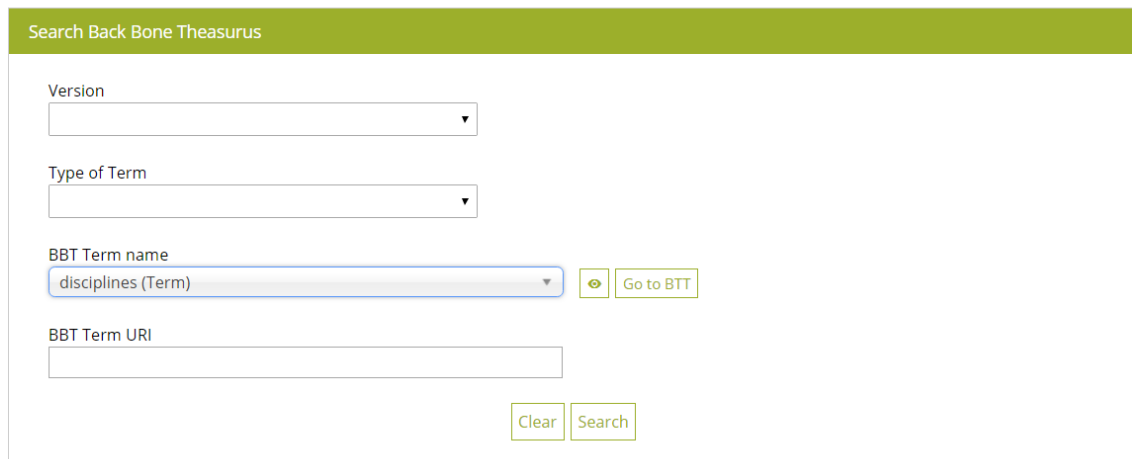
5.1.3 Search Term

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user may search the BackBone Thesaurus for terms (existing or obsolete) by name or IDs (URIs) in a selected version or in all BBT versions (Figure 9). The user can search for a term by adding the following criteria:

- Version
- Type of Term: facet or term
- BBT Term name
- BBT Term URI

Back Bone Thesaurus | Search Back Bone Thesaurus



Search Back Bone Thesaurus

Version

Type of Term

BBT Term name

BBT Term URI

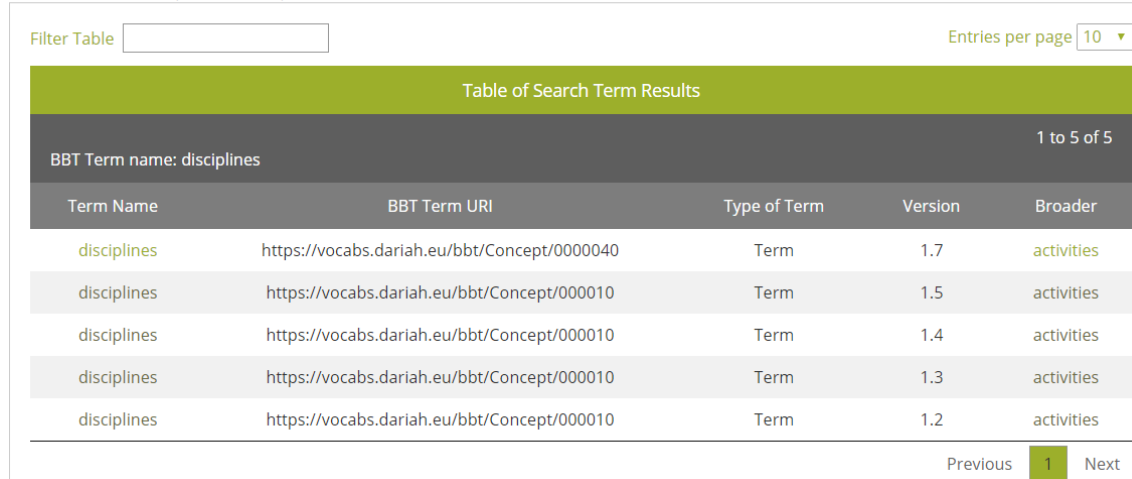
Figure 9: Search term form

The results of the search: the terms that match the criteria, appear in a list (Figure 10). Each line of the list represents a BBT term. Each column includes information related to the BBT term:

- **Term Name:** the name of the BBT term
- **Term URI:** the URI (ID) of the BBT term
- **Type of Term:** the type of the BBT term
- **Version:** the version of the BBT this term is part of
- **Broader term** the broader term of this BBT term

The terms under the columns: Term Name and Broader, provide links to BBT terms forms, presenting details of an existing term (in the current or of a past version) or an obsolete term.

Back Bone Thesaurus | Search Term | Search Term Results



Filter Table Entries per page 10 ▼

Table of Search Term Results				
BBT Term name: disciplines				
Term Name	BBT Term URI	Type of Term	Version	Broader
disciplines	https://vocabs.dariah.eu/bbt/Concept/0000040	Term	1.7	activities
disciplines	https://vocabs.dariah.eu/bbt/Concept/000010	Term	1.5	activities
disciplines	https://vocabs.dariah.eu/bbt/Concept/000010	Term	1.4	activities
disciplines	https://vocabs.dariah.eu/bbt/Concept/000010	Term	1.3	activities
disciplines	https://vocabs.dariah.eu/bbt/Concept/000010	Term	1.2	activities

Previous **1** Next

Figure 10: Search term result table

5.1.4 Version control

By selecting “Version Control” button from the Backbone Thesaurus tool menu the following actions are provided to the users: “View differences between Backbone

Thesaurus Versions” which is visible to all users and “Reset BackBone Thesaurus” which is available only to the *administrator* (Figure 11).

Back Bone Thesaurus | Version Control

View differences between Back Bone Thesaurus Versions

Version From Id

Version To Id

Compare Versions

Reset BackBone Thesaurus

Load initial version of BBT

Figure 11: Version Control actions

5.1.4.1 Comparing versions

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user may select a pair of versions of BBT and request a comparison (Figure 11) by selecting the “Compare Versions” buttons. A list of the differences between the two versions appears in the main area (Figure 12).

Back Bone Thesaurus | Version Control | View changes

View changes from version: 1.2 to 1.9			
Version	Change Type	Old Term	New Term
1.8 → 1.9	Delete	activities1	
1.7 → 1.8	Delete	activities3	
1.6 → 1.7	Split	xxxxxxxxxx	disciplines , intentional destructions
1.5 → 1.6	Merge	disciplines , intentional destructions	xxxxxxxxxx
1.5 → 1.6	Split	activities12	activities1 , activities2
1.5 → 1.6	Modify	activities21	activities12
1.4 → 1.5	Modify	activities12	activities21
1.4 → 1.5	New		activities3
1.3 → 1.4	New		activities12
1.2 → 1.3	Modify	activities	activities
1.2 → 1.3	Modify	Activities	Activities

Figure 12: BBT version difference list

In this list, the differences are listed by most recent version. Each line of the list represents a change in the thesaurus. Each column includes information related to the changes:

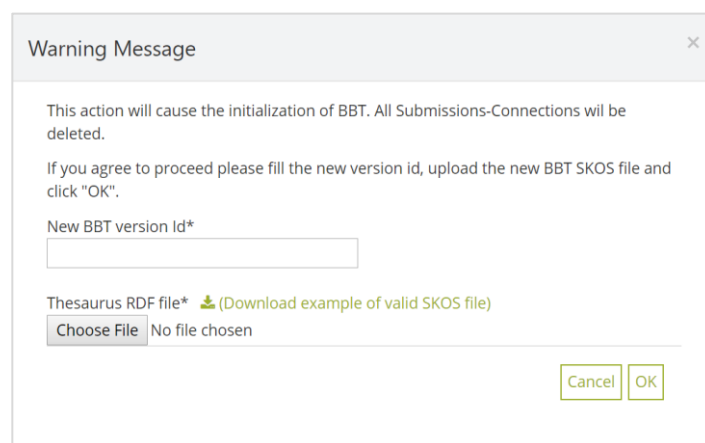
- **Version:** the version transition period that the change took place
- **Change Type:** the type of change (e.g. the change was splitting a term).
- **Old Term:** the terms involved before the change.
- **New Term:** the terms involved after the change.

Terms (old or new) in the change lines are links that lead to term-form of the specific version (old or new accordingly). Notice that in cases where terms appeared and disappeared within the same version transition period links are not available. The eye icon provides details on the specific term modification that took place.

5.1.4.2 Reset BackBone Thesaurus

Related user role: administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

By selecting the action “Load initial version of BBT” (Figure 11), the *administrator* can manually initialize the BBTalk database, by uploading a RDF/SKOS file containing the initial version of the thesaurus (BBT). This action initializes (deletes) also all submissions and connections stored in the database. Note that the RDF/SKOS file has to be compliant with the RDF/SKOS format used by the BBT. For this reason, the system provides an example of a valid thesaurus RDF file as a template for the user to download (Figure 13).



The dialog box is titled "Warning Message" and contains the following text:

This action will cause the initialization of BBT. All Submissions-Connections will be deleted.

If you agree to proceed please fill the new version id, upload the new BBT SKOS file and click "OK".

New BBT version Id*

Thesaurus RDF file* [\(Download example of valid SKOS file\)](#)

Choose File No file chosen

Buttons: Cancel, OK

Figure 13: Load Initial Thesaurus upload form

5.1.5 Implement New Release

By selecting the “Implement New Release” button from the BackBone Thesaurus tool menu (Figure 5), the *curators* and the *administrator* can implement a new release. They can make changes to the BBT terms and facets, preview the new BBT version under construction before it is released, as well as release a new version of BBT. This functionality is described in detail in section “5.4 Implement New Release”.

5.1.6 Edit BBT Properties

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

By selecting the “Edit BBT Properties” button from the BackBone Thesaurus tool menu (Figure 5) a form appears in the main area. In this form (Figure 14), the users can edit and modify BBT properties such as thesaurus title, author(s), description note, access rights, subjects, languages, etc.

BBT Properties		edit mode
Thesaurus	https://vocabs.dariah.eu/bbt/ConceptScheme/Backbone_Thesaurus	
Creation Date	2015-07-01T12:00:00Z	
Modification Date	2017-09-01T12:00:00Z	
Issued	2017-09-01T12:00:00Z	
Version	v1.2	
Title	<input type="text" value="Backbone Thesaurus"/>	
Description	<input type="text" value="The top-level thesaurus proposed in DARIAH"/>	
Rights	<input type="text" value="https://creativecommons.org/licenses/by/4.0/"/>	
Subject	<input type="text" value="conceptual objects"/> <input type="button" value="+"/>	
	<input type="text" value="materials"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="roles"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="processes"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="geopolitical units"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="humanities"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="activities"/>	<input type="button" value="+"/> <input type="button" value="-"/>
Creator	<input type="text" value="Lida Charami"/> <input type="button" value="+"/>	
	<input type="text" value="Helen Goulis"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Makis Chrisovitsanos"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="BBT maintenance WG"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Maria Daskalaki"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Martin Doerr"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Helen Katsiadaki"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Chryssoula Bekiari"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Hella Hollander"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Wolfgang Schmidle"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Iraklitos Souyioultzoglou"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Georgia Papadopoulou"/>	<input type="button" value="+"/> <input type="button" value="-"/>
	<input type="text" value="Vanessa Hanneschläger"/>	<input type="button" value="+"/> <input type="button" value="-"/>
Language	<input type="text" value="Greek"/> <input type="button" value="+"/>	
	<input type="text" value="English"/>	<input type="button" value="+"/> <input type="button" value="-"/>
<input type="button" value="Submit Changes"/>		

Figure 14: Edit BBT Properties form

5.1.7 Generate RDF files

Related user role: administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

In order to keep BBTalk and BBT-browser⁴ synced, BBTalk automatically generates (e.g. on releasing a new BBT version or on *administrator* request) three files and makes them available (via specific URI locations) to the BBT-browser to ingest them and to its triple-store. These files are two RDF/SKOS files containing the current version of BBT, and the connections/mappings to all local thesauri concepts and an XML file containing the local thesauri access details.

By selecting the “Generate RDF files” button from the BackBone Thesaurus tool menu (Figure 5) the *administrator* can manually generate these files. On completion a pop up window appears notifying, that export was successfully completed (Figure 15), providing also links⁵ to the files generated.



Figure 15: Pop up window notifying that export was successfully completed.

5.2 Submissions

Users can create a new Submission (request for change) for a BBT term, using Submissions tab-section. Users can also search, view and comment own and other user submissions or edit, delete own saved submissions.

5.2.1 Submission workflow and submission statuses

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

In Figure 16 we present the sequence diagram of submission statuses. *Contributors* may decide to propose/request changes on the existing BackBone Thesaurus model by creating submissions. Their submissions can be either temporarily saved or submitted.

- **saved:** The user may save a submission, without submitting it. Submissions that have been saved and not submitted are registered as “saved”. Only the user sees his/her saved submissions and he/she may also delete them.

⁴ The BBT-browser (also referred as BBT - Access Service) is a tool responsible for hosting and providing access to the current version the BBT. It provides consistent identification (LOD identification) for all terms of the BBT, in order to be referenced by the local thesauri. BBT - Access Service is based on Skosmos (<http://skosmos.org>) an open source tool, customized and maintained by ACDH-OEAW (www.oew.ac.at/acdh). Its current version can be accessed by clicking the link: https://vocabs.dariah.eu/backbone_thesaurus.

⁵ http://backbonethesaurus.eu/BBTalk/bbtFiles/BBT_official.rdf,
http://backbonethesaurus.eu/BBTalk/bbtFiles/BBT_connected.rdf,
http://backbonethesaurus.eu/BBTalk/bbtFiles/BBT_connected_thesauri.xml

- **submitted** : Once the user sends a submission, the submission takes the status “submitted”. This status shows that the submission has not yet been checked from any *curator*. The user may delete his/her submission or change its status back to “saved” to be able to update the submission.

Curators may start a discussion (discussion-track) and add comments on the submission. All the *curators* may get involved in the discussion by adding their comments. They may need an expert opinion from a domain expert (*reviewer*), which can be invited to the discussion (by “Forward to Reviewer” action) or they may need clarifications from the submitter (by marking a specific comment as “Visible to the Submitter”), which this way is also invited to the discussion (see buttons in *Figure 31*). Note that not all comments of the discussion are visible to the submitter: he/she can only see specific comments, those marked by the *curators* (or the *reviewers*) as “Visible to the Submitter”.

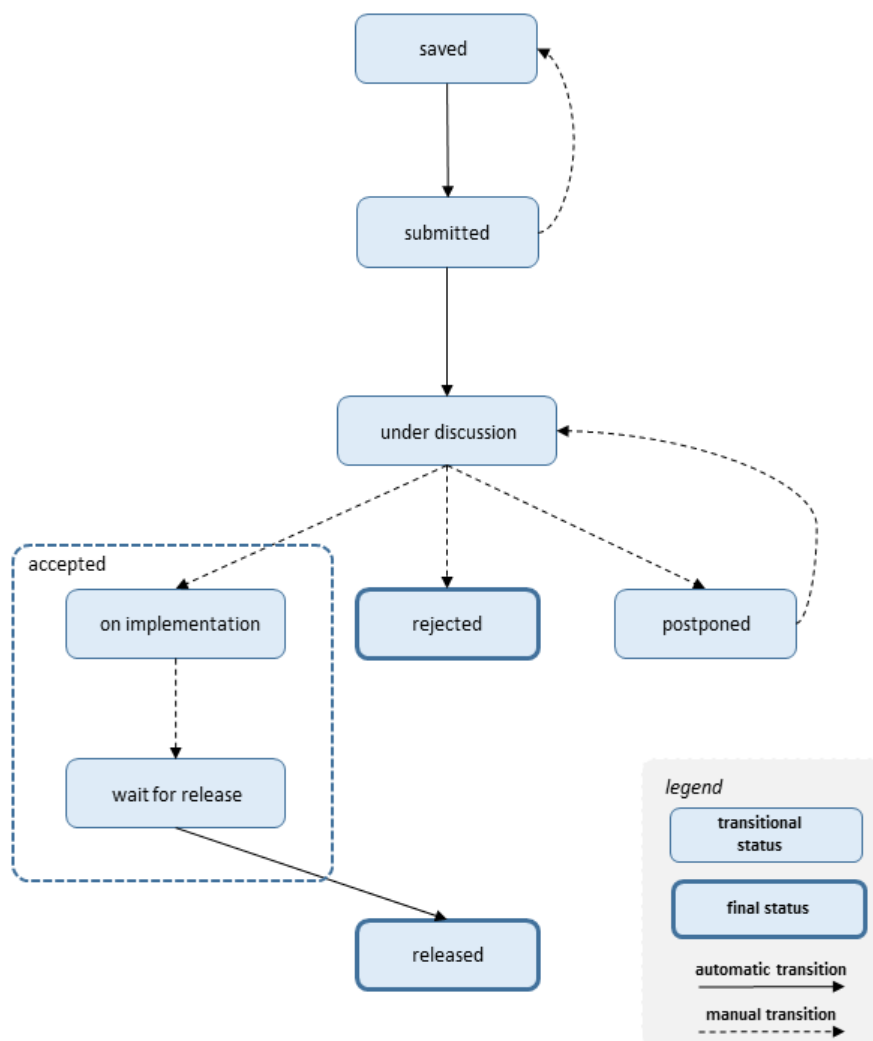


Figure 16: Sequence Diagram of submission statuses

- **under discussion:** After the submission is sent, a *curator* checks the submission and starts the discussion with other *curators* about the submission by adding comments to the submission. Now the submission is on a discussion-track and cannot be updated or deleted.

There is a case that the *curator* might need some explanations or even more information about the submission. If that is the case, the *curator* may ask the submitter (by adding a comment that is marked as “Visible to the Submitter”) or may ask a reviewer (by selecting the action “Forward to Reviewer”). The submitter or the *reviewer* replies by adding a new comment, giving explanations or more information about the submission.

Related user role: curator, reviewer, administrator

The *curators* may finalize discussion or even pause/postpone the discussion. Finalizing a discussion on a submission means that the submission is either “rejected” or “released”. The *curators* may change the status of a submission to accepted/rejected/postponed. We intentionally keep the discussion open even when the submission is “on implementation” or is “waiting for release”, in order for the involved users to exchange opinions.

- **(accepted) on implementation:** When a submission has the status “on implementation”, means that the change request is in the phase of implementation.
- **(accepted) wait for release:** After the implementation is completed, the *curator* changes the submission status to “wait for release”. *Related user role: contributor* Notice that the contributors see the above two statuses as “accepted”.
- **postponed:** The request for change will be reviewed later in time.
- **rejected:** The request for change is considered as not implementable and all the parties are informed.
- **released:** When a new official version of the BBT model is released, all submissions with status “wait for release” change to “released” and all the interested parties are informed about the final status of the request for change.

Most statuses change automatically by the system when an action is executed, e.g. when a submitter saves or submits a request for a change (submission), the submission is registered as “saved” or “submitted” accordingly (*Figure 16*). Some statuses may change only the *curator* or *administrator* selecting “Change Status” button in the submission form (see section “5.2.6 Change status in submissions”).

5.2.2 Submissions list description

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When the Submission tab-section is selected, the list of all submission entries appears in the main area (*Figure 17*). Submissions are listed by most recent entry date.

Each line of the list represents a submission. Each column includes information related to the submissions:

- **Submission Type:** the type of submission (e.g. proposal for splitting a term)
- **Term Name:** the term of the BBT the submission refers to
- **Submitter:** the user who made the submission
- **Submission Date:** the date of submission

- **BBT Version:** the version number of the BBT on which the submission was made
- **Status:** the status of the submission
- **Submission Id:** An identification number of the submission given automatically by the system

Back Bone Thesaurus **Submissions** Connections

⚙️ Create new submission for ▼ 🔍 Search submissions [HOW TO USE](#)

Submissions

Filter Table Show status all ▼ Entries per page 10 ▼

Table of Submissions							1 to 10 of 29	
Submission Type	Term Name	Submitter	Submission Date	BBT Version	Status	Submission Id		
New	publishing roles [PARTHENOS]	Tsoulouha	18.09.2018 18:05	1.2	under discussion	2041	⚙️	🔒
New	programming language [PARTHENOS]	Tsoulouha	18.09.2018 18:05	1.2	submitted	2040	⚙️	🔒
New	formal language [PARTHENOS]	Tsoulouha	18.09.2018 18:04	1.2	under discussion	2039	⚙️	🔒
New	language [PARTHENOS]	Tsoulouha	18.09.2018 18:04	1.2	under discussion	2037	⚙️	🔒
New	natural language [PARTHENOS]	Tsoulouha	18.09.2018 18:03	1.2	under discussion	2038	⚙️	🔒
New	rights [PARTHENOS]	Tsoulouha	18.09.2018 17:58	1.2	submitted	2035	⚙️	🔒
New	authorization policy [PARTHENOS]	Tsoulouha	18.09.2018 17:57	1.2	submitted	2036	⚙️	🔒
New	contact points [PARTHENOS]	Tsoulouha	18.09.2018 17:55	1.2	under discussion	2032	⚙️	🔒
New	encoding [PARTHENOS]	Tsoulouha	18.09.2018 17:55	1.2	under discussion	2033	⚙️	🔒
New	norms [PARTHENOS]	Tsoulouha	18.09.2018 17:53	1.2	under discussion	2034	⚙️	🔒

Previous **1** 2 3 Next

Figure 17: List of Submissions

All submission lines of the list are links that lead to the Submissions form in view mode (see section “5.2.4 View a submission”).

Submissions tool menu includes a “Create New Submission for...” button (see section “5.2.3 Create a new submission”) and a “Search Submissions” button (see section “5.2.9 Search for submissions”).

5.2.2.1 Submissions List Filters

The user can filter submissions either from the filter box on the left top side of the list using keywords related to the field content that appears in the columns and rows of the table (Figure 18) or from the dropdown list on the center top side of the list depending on their status (Figure 19).

Filter Table Show status all Entries per page 10

Table of Submissions						
1 to 3 of 3 (filtered of 29)						
Submission Type	Term Name	Submitter	Submission Date	BBT Version	Status	Submission Id
New	publishing roles [PARTHENOS]	Tsoulouha	18.09.2018 18:05	1.2	under discussion	2041
New	programming language [PARTHENOS]	Tsoulouha	18.09.2018 18:05	1.2	submitted	2040
New	encoding [PARTHENOS]	Tsoulouha	18.09.2018 17:55	1.2	under discussion	2033

Previous 1 Next

Figure 18: Submissions list filtered by keyword “ing”

Filter Table Show status under discussion Entries per page 10

Table of Submissions						
1 to 10 of 16						
Submission Type	Term Name	Submitter	Submission Date	BBT Version	Status	Submission Id
New	publishing roles [PARTHENOS]	Tsoulouha	18.09.2018 18:05	1.2	under discussion	2041
New	formal language [PARTHENOS]	Tsoulouha	18.09.2018 18:04	1.2	under discussion	2039
New	language [PARTHENOS]	Tsoulouha	18.09.2018 18:04	1.2	under discussion	2037
New	natural language [PARTHENOS]	Tsoulouha	18.09.2018 18:03	1.2	under discussion	2038
New	contact points [PARTHENOS]	Tsoulouha	18.09.2018 17:55	1.2	under discussion	2032
New	encoding [PARTHENOS]	Tsoulouha	18.09.2018 17:55	1.2	under discussion	2033
New	norms [PARTHENOS]	Tsoulouha	18.09.2018 17:53	1.2	under discussion	2034
New	identifiers [PARTHENOS]	Tsoulouha	18.09.2018 17:51	1.2	under discussion	2031
Modify	built environment	Tsoulouha	05.09.2018 17:32	1.2	under discussion	2026
Modify	physical features	Tsoulouha	05.09.2018 17:31	1.2	under discussion	2025

Previous 1 2 Next

Figure 19: Submissions list filtered by status “under discussion”

5.2.2.2 Submission Actions

The user may select to edit or delete one of his/her own submissions, view the BBT term add a comment to a submission or forward the submission to a *reviewer* or the submitter.

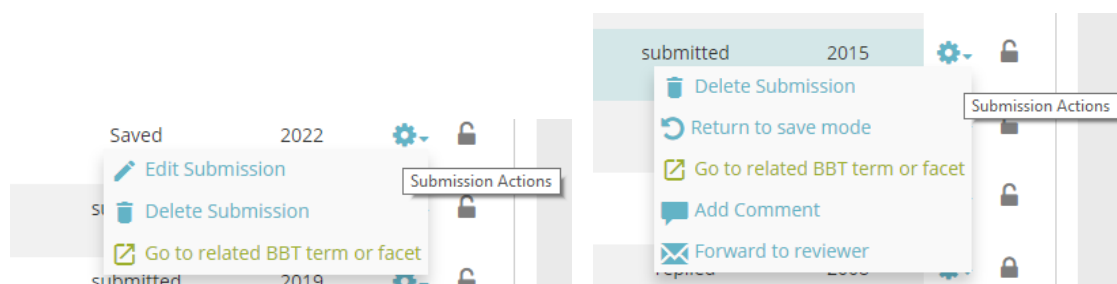


Figure 20: Submission list actions, depend on the submission status

On the right side of each submission line are located the action buttons (Figure 20). Notice that actions depend on the status of the submission and whether the user owns the submission:

- **Edit Submission:** (*Related user role: owner*) this button opens the submission form in edit mode. Users can only edit their own submissions and only those with status “saved”. (*Related user role: administrator*) Only the *administrator* have the right to edit other user submissions (with status “saved”).
- **Return to save mode:** (*Related user role: owner*) since users can only edit their own submissions with status “saved”, this button enables users to change the status of a submission from “submitted” back to “saved”. (*Related user role: administrator*) Only the *administrator* have the right to return other user submissions (with status “submitted”) to status “saved”.
- **Delete submission:** (*Related user role: owner*) this button allows the user to delete the submission. Users can delete only their own submissions (submissions with status “saved” or “submitted”). A warning message appears by clicking the button. (*Related user role: administrator*) Only the *administrator* have the right to delete other user submissions (submissions with status “saved” or “submitted”).
- **Go to related BBT term or facet:** (*Related user role: all*) this button allows the user to view the BBT term.
- **Add a comment:** (*Related user role: all*) this button opens the submission form in edit mode and reveals the submission discussion, thus enabling the user to add a comment in the discussion (see details in section “5.2.5 Comment on submissions”).
- **Forward to reviewer:** (*Related user role: curator, administrator*) this button invites one or more *reviewers* to take part in a submission discussion. It opens up a pop up screen allowing the user to choose the specific *reviewer(s)* and to write an invitation message. The system therefore enables him/them to add comments to the submission. Additionally the system sends an e-mail to the reviewer(s), which includes the typed message, the link to the submission and the comment from the user (see details in section “5.2.7 Forward a submission to a reviewer”).

Notice that the same set of actions is available from the Submission form in view mode that is discussed in detail in section “5.2.4 View a submission”.

5.2.3 Create a new submission

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

In order to create a new Submission, the user has to choose “Create new submission for...” from the top left side of the tool menu. The button expands a dropdown list with the types of submission actions available (*Figure 21*):

- **Creating a new term:** The user wants to request the addition of a new term to the BBT.
- **Deleting a term:** The user wants to request the deletion of an existing term of the BBT.
- **Modifying a term:** The user wants to request the modification of the name or the scope note (or any other related information) of an existing term of the BBT.
- **Merging terms:** The user wants to request the merge of two or three existing terms of the BBT.
- **Splitting terms:** The user wants to request the split of an existing term of the BBT into two separate terms.

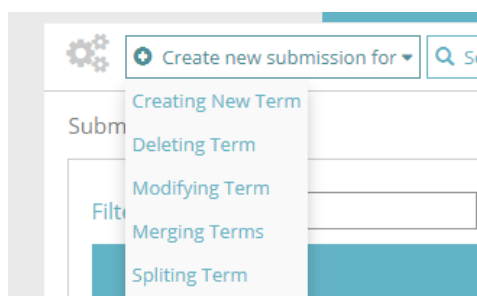


Figure 21: Options for creating a new submission

5.2.3.1 Submission form layout

The Submission forms vary depending on the submission type. The general structure is the same but some fields might differ.

The Submission form page is divided in the following parts (*Figure 22*):

- **Breadcrumbs:** They are located on the left top side of the page and help the user navigate back to the main page of the Submission tab-section.
- **Form Title:** In this area (in blue color) of the Submission tab-section the submission type is displayed (e.g. Submission for modifying term). On the right side of this area the mode (edit/view) of the form is mentioned (here edit mode).
- **Admin related Info:** The area in grey color displays information such as: the username of the submitter, the submission date and the version of the BBT to which the referred BBT term belongs. These fields are not editable.

(BBT term related info, depends on the type of submission)

The main part of the page includes all the information that is related to the term. The fields included in this part depend on the submission type (splitting a

term, delete a term etc.). These fields are described in detail in sections 5.2.3.2 to 5.2.3.6.

The screenshot shows the 'Submission Form (edit mode)' interface. At the top, there's a breadcrumb trail 'Submissions | Submission Form (edit mode)' and a form title 'Submission form for creating a new term or facet for the BBT'. Below the title, there's a header bar with 'edit mode' and 'admin related info'. The form contains several sections: 'New BBT Term or Facet name*' with a text input, 'Type*' with a dropdown menu, 'New BBT Term or Facet Scope Note*' with a large text area, an 'Add translation' button, 'Broader Term' with a text input and a '+', and a 'Go to BTT' button. The bottom section is titled 'Submission related info' and includes 'Justification', 'Relevant submissions', 'Similar Terms or Facets of other Thesauri', and 'Comment' fields, each with a text input. At the bottom right, there are 'Save' and 'Submit' buttons.

Figure 22: Parts of the Submission form

(Submission related info)

- **Justification:** In this free text field the user can add a justification about his/her submitted request for change.
- **Relevant submissions:** In this field related submissions can be added. More than one submissions can be linked.
- **Similar Terms (or Facets) of other Thesauri:** In this free text field the user can add similar terms of facets of other thesauri.
- **Comment:** In this free text field the user can add a comment in relation to the submission.

By using this “Save” the submission is saved and added to the table of submissions. Its status is marked as “saved”. These submissions can be edited or deleted and are only visible by their creator until they are submitted.

By using this “Submit” a submission is sent. Now it is visible to all user roles. Its creator has not anymore the right to edit the submission. Its status will be marked as “submitted” until it will be evaluated by the curators and the reviewers. These submissions can be deleted, only by their creators. They can also be declared as “saved” in case their creator wants to edit them.

Both the top and the bottom parts of the form contain what we call the general fields of the submission form.

5.2.3.2 Create a new submission for creating a new BBT term

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing the (create new submission for) “Creating New Term” option the submission form for creating a new BBT term in edit mode appears. The submission form includes all the general fields described in section “5.2.3.1 Submission form layout”. Additionally the main /middle part of the submission form for creating a new BBT term, has the following specific fields (*Figure 23*):

Submissions | Submission Form (edit mode)

Submission form for creating a new term or facet for the BBT
edit mode

Submitter: sysadmin Submission Date: 25.07.2018 Version: 1.2

New BBT Term or Facet name*
Type*
Term

New BBT Term or Facet Scope Note* ⓘ

Add translation

Broader Term
+ ⓘ Go to BTT

Justification ⓘ

Relevant submissions ⓘ

Similar Terms or Facets of other Thesauri ⓘ

Comment ⓘ

Save Submit

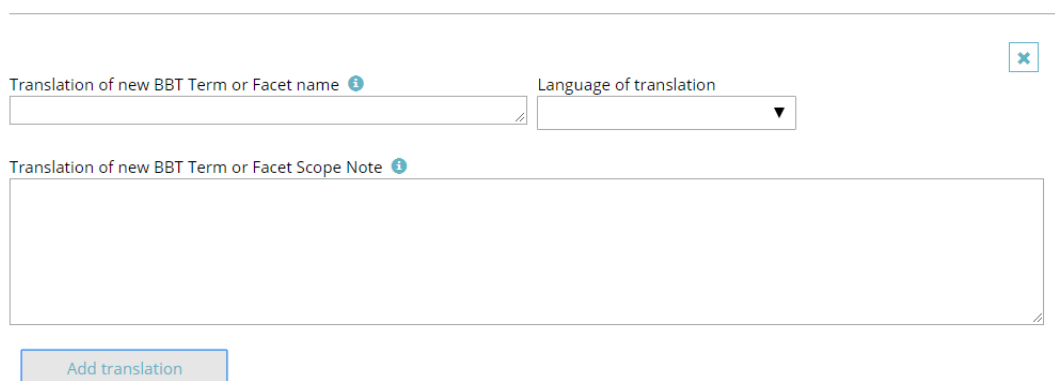
Figure 23: Submission form for creating a new BBT term

- **New BBT Term or Facet name:** In this field is added the name of the term or facet, which is requested to be added to the BBT. This field is obligatory.
- **Type:** In this field the type “term” or “facet” must be specified. This field is obligatory.
- **New BBT Term or Facet Scope note:** The scope note is the description of the term. This is a free text field. This field is obligatory.
- **Broader term:** In this field the user can add the broader term. This means, the BBT term that is above the new proposed term in the hierarchy of the BBT. Enter the first letter of the term and choose a BBT term from the dropdown list. More broader terms can be added by clicking on the “+” button. If the user wants to delete an extra broader term, he/she can click on the delete button next to the text field. If a BBT term is selected the view button is activated. This button opens up a pop up window with the BBT term form of the selected term. The user can also choose the “Go to BBT” button, which opens up a new tab in browser, in order to have a faster overview of the thesaurus (BackBone Thesaurus tab-section is selected).

By selecting “Add translation” button the user is prompted with a form to enter the translation of the new BBT term, for a specific language (*Figure 24*):

- **Translation of new BBT Term or Facet name :** In this field a translation of the new term can be added. This is a free text field.
- **Language of translation:** In this field the language of the translation of the new term is selected.
- **Translation of new BBT Term or Facet Scope Note:** In this field a translation of the scope note of the term can be added. This is a free text field.

Translation in multiple languages is allowed by selecting “Add translation” button for the next language. By pressing “x” button the selected translation is deleted.



The screenshot shows a web form for adding translations. At the top right is a blue square button with a white 'x'. Below it are two fields: a text input labeled 'Translation of new BBT Term or Facet name' with an information icon, and a dropdown menu labeled 'Language of translation'. Below these is a large text area labeled 'Translation of new BBT Term or Facet Scope Note' with an information icon. At the bottom left is a blue button labeled 'Add translation'.

Figure 24: Translation part of the Submission form for creating a new BBT term

5.2.3.3 Create a new submission for deleting a term

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing the (create new submission for) “Deleting Term” option the submission form for deleting a BBT term in edit mode appears. The submission form includes all the general fields described in section “5.2.3.1 Submission form layout”. Additionally the main /middle part of the submission form for deleting a BBT term, has the following specific field (Figure 25):

- **Choose the BBT Term of Facet you want to delete:** In this field is added the name of the BBT term be deleted. Enter the first letter of the term and choose a BBT term from the dropdown list. If a BBT term is selected the view button is activated. This button opens up a pop up window with the BBT term form of the selected term. The user can also choose the “Go to BBT” button, which opens up a new tab in browser, in order to have a faster overview of the thesaurus (BackBone Thesaurus tab-section is selected). This field is obligatory.

Submissions | Submission Form (edit mode)

Submission form for deleting BBT term or Facet edit mode

Submitter: lida Submission Date: 20.10.2017 Version: 1.9

Choose the BBT term or Facet you want to delete:*

Justification ⓘ

Relevant submissions ⓘ

Similar Terms or Facets of other Thesauri ⓘ

Comment ⓘ

Save Submit

Figure 25: Submission form for deleting a term

5.2.3.4 Create a new submission for modifying a term

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing the (create new submission for) “Modifying Term” option the submission form for modifying a BBT term in edit mode appears. The submission form includes all the general fields described in section “5.2.3.1 Submission form layout”.

Additionally the main part of the submission form for modifying a BBT term, has the following specific fields (*Figure 26*):

[Submissions](#) | [Submission form \(edit mode\)](#)

Submission form for modifying BBT term or Facet edit mode

Submitter: sysadmin Submission Date: 25.07.2018 Version: 1.2

Choose the BBT term or facet you want to modify:

Go to BTT

New BBT Term or Facet name* Type* Term

New BBT Term or Facet Scope Note* Add translation

Broader Term + Go to BTT

Justification

Relevant submissions

Similar Terms or Facets of other Thesauri

Comment

Save Submit

Figure 26: Submission form for modifying a term

- Choose the BBT Term of Facet you want to modify:** In this field is selected the name of the term or facet, which is requested to be modified. Enter the first letter of the term and choose a BBT term from the dropdown list. If a BBT term is selected the view button is activated. This button opens up a pop up window with the BBT term form of the selected term. The user can also choose the “Go to BBT” button, which opens up a new tab in browser, in order to have a faster overview of the thesaurus (BackBone Thesaurus tab-section is selected). This field is obligatory. Once the BBT term is selected all the information related to the term is filled automatically to the fields of the form, ready to be modified.

- **New BBT Term or Facet name:** In this field the name of the term or facet, can be modified. This field is obligatory.
- **Type:** In this field the type “term” or “facet” is specified. This field is obligatory.
- **New BBT Term or Facet Scope note:** The scope note is the description of the term. This is a free text field. This field is obligatory.
- **Broader term:** In this field the user can add the broader term. This means, the BBT term that is above the new proposed term in the hierarchy of the BBT. Enter the first letter of the term and choose a BBT term from the dropdown list. More broader terms can be added by clicking on the “+” button. If the user wants to delete an extra broader term, he/she can click on the delete button next to the text field. If a BBT term is selected the view button is activated. This button opens up a pop up window with the BBT term form of the selected term. The user can also choose the “Go to BBT” button, which opens up a new tab in browser, in order to have a faster overview of the thesaurus (BackBone Thesaurus tab-section is selected).

By selecting “Add translation” button the user is prompted with a form to enter the translation of the new BBT term, for a specific language (*Figure 24*):

- **Translation of new BBT Term or Facet name:** In this field a translation of the new term can be added. This is a free text field.
- **Language of translation:** In this field the language of translation of the new term is selected.
- **Translation of new BBT Term or Facet Scope Note:** In this field a translation of the scope note of the term can be added. This is a free text field.

Translation in multiple languages is allowed by selecting “Add translation” button for the next language. By pressing “x” button the selected translation is deleted.

5.2.3.5 Create a new submission for merging terms

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing the (create new submission for) “Merging Terms” option the submission form for merging BBT terms in edit mode appears. The submission form includes all the general fields described in section “5.2.3.1 Submission form layout”. Additionally the main part of the submission form for merging BBT terms, has the following specific fields (*Figure 27*):

- **Choose the BBT terms or Facets you want to merge:** In this field, the user can add the terms or facets to be merged. Enter the first letter of the term and choose a BBT term from the dropdown list. More terms (up to three in total) can be added by clicking on the “+” button. If the user wants to delete an extra term he/she added, he/she can click on the “-” button next to the third field. If a BBT term is selected the view button is activated. This button opens up a pop up window with the BBT term form of the selected term. The user can also choose the “Go to BBT” button, which opens up a new tab in browser, in order to have a faster overview of the thesaurus (BackBone Thesaurus tab-section is

selected). By pressing the “Auto fill content” button all the information related to the selected terms is entered automatically to the fields of the form, ready to be modified. This field is obligatory (at least two terms must be selected).

- **New BBT Term or Facet name:** In this field is added the name of the term or facet, which is requested to be added to the BBT. This field is obligatory.
- **Type:** In this field the type “term” or “facet” must be specified. This field is obligatory.
- **New BBT Term or Facet Scope note:** The scope note is the description of the term. This is a free text field. This field is obligatory.

Submissions | Submission Form (edit mode)

Submission form for merging BBT terms or facets edit mode

Submitter: sysadmin Submission Date: 25.07.2018 Version: 1.2

Choose the BBT terms or Facets you want to merge:*

New BBT Term or Facet name* Type*

New BBT Term or Facet Scope Note*

Justification

Relevant submissions

Similar Terms or Facets of other Thesauri

Comment

Figure 27: Submission form for merging terms

By selecting “Add translation” button the user is prompted with a form to enter the translation of the new BBT term, for a specific language (Figure 24):

- **Translation of new BBT Term or Facet name:** In this field a translation of the new term can be added. This is a free text field.
- **Language of translation:** In this field the language of translation of the new term is selected.
- **Translation of new BBT Term or Facet Scope Note:** In this field a translation of the scope note of the term can be added. This is a free text field.

Translation in multiple languages is allowed by selecting “Add translation” button for the next language. By pressing “x” button the selected translation is deleted.

5.2.3.6 Create a new submission for splitting a term

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing the (create new submission for) “Splitting Term” option the submission form for splitting a BBT term in edit mode appears. The submission form includes all the general fields described in section “5.2.3.1 Submission form layout”. Additionally the main part of the submission form for splitting a BBT term, has the following specific fields (Figure 28):

- **Choose the BBT term or facet you want to split:** In this field is selected the name of the term or facet, which is requested to be split. Enter the first letter of the term and choose a BBT term from the dropdown list. If a BBT term is selected the view button is activated. This button opens up a pop up window with the BBT term form of the selected term. The user can also choose the “Go to BBT” button, which opens up a new tab in browser, in order to have a faster overview of the thesaurus (BackBone Thesaurus tab-section is selected). By pressing the “Auto fill content” button all the information related to the selected term is entered automatically to the fields of the form, ready to be modified. This field is obligatory.

The term is requested to be split into the two following terms:

Information related to the term (1)

- **New BBT Term or Facet name (1):** In this field is added the name of the first term or facet, which is requested to be added to the BBT. This field is obligatory.
- **Type (1):** In this field the type “term” or “facet” must be specified. This field is obligatory.
- **New BBT Term or Facet Scope note (1):** The scope note is the description of the term. This is a free text field. This field is obligatory.

By selecting “Add translation” button the user is prompted with a form to enter the translation of the new BBT term (1), for a specific language (Figure 24):

- **Translation of new BBT Term or Facet name (1):** In this field a translation of the new term can be added. This is a free text field.
- **Language of translation:** In this field the language of translation of the new term is selected.

- **Translation of new BBT Term or Facet Scope Note (1):** In this field a translation of the scope note of the term can be added. This is a free text field.

Translation in multiple languages is allowed by selecting “Add translation” button for the next language. By pressing “x” button the selected translation is deleted.

[Submissions](#) | Submission Template (edit mode)

Submission form for splitting BBT term or Facet
edit mode

Submitter: sysadmin Submission Date: 25.07.2018 Version: 1.2

Choose the BBT term or facet you want to split:

▼

Auto fill content
Go to BTT

New BBT Term or Facet name (1)*
Type (1)*

Term
▼

New BBT Term or Facet Scope Note* (1) ⓘ

Add translation

New BBT Term or Facet name (2)*
Type (2)*

Term
▼

New BBT Term or Facet Scope Note* (2) ⓘ

Add translation

Justification ⓘ

Relevant submissions ⓘ

Similar Terms or Facets of other Thesauri ⓘ

Comment ⓘ

Figure 28: Submission form for splitting a term

Information related to term (2)

- **New BBT Term or Facet name (2):** In this field is added the name of the second term or facet, which is requested to be added to the BBT. This field is obligatory.
- **Type (2):** In this field the type “term” or “facet” must be specified. This field is obligatory.
- **New BBT Term or Facet Scope note (2):** The scope note is the description of the term. This is a free text field. This field is obligatory.

By selecting “Add translation” button the user is prompted with a form to enter the translation of the new BBT term (2), for a specific language (*Figure 24*):

- **Translation of new BBT Term or Facet name (2):** In this field a translation of the new term can be added. This is a free text field.
- **Language of translation:** In this field the language of translation of the new term is selected.
- **Translation of new BBT Term or Facet Scope Note (2):** In this field a translation of the scope note of the term can be added. This is a free text field.

Translation in multiple languages is allowed by selecting “Add translation” button for the next language. By pressing “x” button the selected translation is deleted.

5.2.4 View a submission

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing a row of the table (which is a link to a specific submission) the submission form in view mode opens up (*Figure 29*).

The submission form page is divided in the following parts (described also in section “5.2.3.1 Submission form layout”):

- The *top part* which includes the breadcrumbs, the form title and the admin related Info, such as: the username of the submitter, the submission date, the version of the BBT, the submission ID, etc.
- The *main part* of the page includes all the information that is related to the term. The fields included in this part depend on the submission type (splitting a term, delete a term etc.). These fields are described in detail in sections 5.2.3.2 to 5.2.3.6.
- Finally the *bottom part* that includes all the submission related information, such as the justification, any relevant submissions and any similar terms (or facets) of other thesauri.

At the bottom of the form are located action buttons related to the submission. Notice that actions depend on the status of the submission and whether the submission is owned by the user. The actions are discussed in detail in section “5.2.2.2 Submission Actions”.

Back Bone Thesaurus **Submissions** Connections Users

Create new submission for Search submissions HOW TO USE

Submissions | Submission Form (view mode)

Submission form for modifying BBT term or Facet view mode

Submitter: Eleni Tsouloucha Institution: Submission Date: 21.09.2018 Version: 1.2 Submission Id: 2025 Status: under discussion

BBT Term or Facet Name physical features

Hide Changes

New BBT Term or Facet name	physical features
Type	Term
Scope Note	<p>This term classifies specific formations that are integrally adapted to certain material objects. They cannot, therefore, be separated from the carrier-object, but they also do not identify with it, since it is only a part of the carrier-object that carries the entire feature. In this sense, the feature is fixed, with respect to the carrier-object, while any attempt to remove it will result in the loss of part of the carrier-object. They may have two- or three-dimensional geometric extent, but there are no natural borders that separate them completely, in an objective way from the carrier-objects. Instances of Physical Features can be features in a narrower sense (scratches, holes, reliefs, surface colours etc.), while in the wider sense, they are portions of particular objects with borders that are not absolutely defined, such as the core of the Earth or the head of a marble statue. <u>
NOTE: The formations grouped under Physical features have a spatial extent, best captured as feature geometry, i.e. by coordination with the respective terms subsumed under the facet "Geometric extents".</u></p>
Broader Term	material things

Change Status Forward to reviewer View Discussion - Add Comment

Figure 29: Submission form – view mode

“View Discussion - Add comment” link enables the user to view the submission discussion and enables him/her to add a new comment (as described in section “5.2.5 Comment on submissions”).

In the following sections we discuss in more detail “Hide Changes” button (section “5.2.4.1 Hide Changes in submissions”), “Change Status” button (section “5.2.6 Change status in submissions”) and “Forward to Reviewer” button (section “5.2.7 Forward a submission to a reviewer”).

5.2.4.1 Hide Changes in submissions

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The users may choose to display or hide the changes in submission regarding the modification of a BBT term or Facet. Changes are made visible with special markup format: added text is highlighted in green and underlined, while deleted text is highlighted in light red and strikethrough (Figure 30). The user may select “Hide Changes”, to hide the markup, or by selecting “Show Changes” to make the markup visible again.

[Hide Changes](#)

New BBT Term or Facet name	offices
Type	Term
Scope Note	This term classifies official roles attributed to persons or social groups individuals, which grant them rights and/or dictate obligations in relation to either the functioning of exerting these rights and/or to the performing of administrative and management duties of institutional bodies. These properties are institutionally and socially recognized and acquire meaning only in the context of an organized community.
Broader Term	roles
Justification	The proposed change in the scope note of the term (i.e. substituting "attributed to individuals" for "attributed to persons or social groups") can be thought of as unimportant, but, in fact, makes much of a difference. Adding "social groups" in the scope note hinders the distinction between Offices on the one hand and Groups and Collectivities on the other, as the distributive reading -i.e. a set of relations/official roles attributed to individuals within a group -is systematically downplayed. At the same time, the role assigned to a certain social group as a whole, could be identical to its function, its actions, its goals and aspirations etc, thus increasing the ambiguity.

Figure 30: Displaying changes in Submission form for modifying a term

5.2.5 Comment on submissions

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

There are two ways the user can view a submission discussion and get involved in it by adding a new comment: (a) by selecting a submission in the table of submissions and choose the "Add Comment" button (*Figure 20*) on the right side of the table row (also described in section "5.2.2.2 Submission Actions") and (b) by selecting the "View Discussion – Add Comment" link in the Submission form in view mode (*Figure 29*).

By selecting "View Discussion – Add Comment" action the lower part of the Submission form (view mode) expands and reveals the discussion area (*Figure 31*). All users that are able to view the discussion can add a comment. The system automatically attaches to the comment, the username and the date the comment was made. The user can delete his/her last comment (before it is answered by a *curator*). A warning message will appear before the deletion.

(Related user role: curator, reviewer, administrator): The *curator* or the *reviewer* can select if the comment should be visible to the submitter (*contributor*). They may invite the *contributor* to give a clarification, or an explanation, by selecting the tick-box "Visible to the Submitter" on a new comment. The invitation of a *contributor* in a discussion is also discussed in section "5.2.1 Submission workflow and submission statuses".

(Related user role: contributor): The *contributors* can only see the comments marked as "Visible to the Submitter" in the discussions under their own submissions

Curators may invite a *reviewer* or a *contributor* in a discussion (also discussed in detail in section "5.2.1 Submission workflow and submission statuses").

Back Bone Thesaurus **Submissions** Connections Users

⚙️ Create new submission for ▾ 🔍 Search submissions [HOW TO USE](#)

Submissions | Submission Form (view mode)

Submission form for modifying BBT term or Facet view mode

Submitter: **Eleni Tsouloucha** Institution: Submission Date: **21.09.2018** Version: **1.2** Submission Id: **2024** Status: **under discussion**

BBT Term or Facet Name **Geopolitical Units**

Hide Changes

New BBT Term or Facet name	Geopolitical Units
Type	Facet
Scope Note	This facet comprises types of administrative divisions used by a state or other sovereign or political structure within the boundaries of its jurisdiction. Intrinsic features of these units include, among others, the extent of the area over which they are applied/exercised, the chronological extent during which they are in force, their governing bodies and the degree of autonomy they are granted in relation to managing and exploiting of their resources. <u>
NOTE: The administrative divisions grouped under Geopolitical units have a spatial extent, best captured as feature geometry, i.e. by coordination with the respective terms subsumed under the facet "Geometric extents".</u>
New BBT Top Term Scope Note	This term classifies administrative divisions used by a state or other sovereign or political structure within the boundaries of its jurisdiction. Intrinsic features of these units include, among others, the extent of the area over which they are applied/exercised, the chronological extent during which they are in force, their governing bodies and the degree of autonomy they are granted in relation to managing and exploiting of their resources.

Change Status ✉ Forward to reviewer Hide Discussion

Discussion (Visible to all curators)

martin_doerr : Submission Date: 12.09.2018
 Better:

NOTE: The administrative divisions grouped under Geopolitical units have a stationary spatial extent and undergo from time to time modifications, which qualifies the aspect of their spatial extent also as kinds of places. They constitute geographical features in the sense of the Open Geospatial Consortium (OGC, www.opengeospatial.org). Therefore classifying their spatial aspect as kinds of places is best captured by coordinating an adequate term subsumed under the facet "Geometric extents" with the term "Geopolitical units" or one of its narrower terms.
 Visible to: Tsouloucha (Submitter)

Christos.Georgis :

☐ Visible to Submitter Send

Figure 31: Commenting on a submission

5.2.6 Change status in submissions

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

The users may finalize discussion or even pause/postpone the discussion, by selecting “Change Status” button in the Submission form (Figure 32). Finalizing a discussion on a submission means that the submission is either “rejected” or “released”. The users may change the status of a submission to accepted/rejected/postponed, as is described in section “5.2.1 Submission workflow and submission statuses”.

Figure 32: Change status in submissions

5.2.7 Forward a submission to a reviewer

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

The user can invite a *reviewer* to a discussion about a submission. This is possible by selecting the “Forward to Reviewer” button (from the Submission form) or the “Forward to Reviewer” action (from the Submissions list). This opens up a pop up screen allowing the user to write a message and choose the specific *reviewer(s)*.

The system therefore enables the specific *reviewer(s)* to take part in the submission discussion (enables him/them to add comments to the submission). Additionally the system sends an e-mail to the *reviewer(s)*, which includes the typed message, the link to the submission and the comment from the user.

The invitation of a *reviewer* in a discussion is also described in detail in section “5.2.1 Submission workflow and submission statuses”.

5.2.8 Edit a submission

Related user role: owner (applies to the entire section apart of paragraphs with other indication in the beginning)

There are two ways the submitter can edit a submission: (a) by selecting a submission in the table of submissions and choose the “Edit Submission” button (Figure 20) on the right side of the table row (also described in section “5.2.2.2 Submission Actions”) and (b) by selecting the “Edit Submission” button in the Submission form in view mode (Figure 33).

Notice that editable are only the submissions owned by the user and are under status “saved”.

Figure 33: Select to edit a submission from submission form in view mode

When the submission form in edit mode appears, all fields are filled with information from the selected submission. A detailed description of the form can be found in section “5.2.3 Create a new submission”.

5.2.9 Search for submissions

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user may search for a submission by adding the following criteria (*Figure 34*):

Submissions | Search Submissions

Search submissions

Keyword ⓘ

Submission Id

BBT Term name

▼

Go to BTT

Relevant submissions ⓘ

Select an Option ▼

Similar Terms or Facets of other Thesauri ⓘ

Submission Type ⓘ

▼

Version ⓘ

▼

Status ⓘ

▼

Submitter

Submission Date

From mm/dd/yyyy

To mm/dd/yyyy

Search

Figure 34: Form for searching submissions

- Keyword (anywhere in the submission text fields)
- Submission Id
- BBT Term Name
- Relevant Submissions
- Similar Terms or Facets of other Thesauri
- Action
- Version
- Status
- Submitter
- Submission date

5.3 Connections

Users can create a connection between a BBT term and a term of their local thesaurus, using Connections tab-section. Users can also search and view connections of other users as well as send a message to the connection creator. It is also possible for the user to edit or delete connections that he/she owns.

5.3.1 Connections list description

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When the Connection tab-section is selected, the list of all connections /mappings appears in the main area (*Figure 35*). Connections are listed by most recent entry date.

Table of Local Thesauri Connections					
1 to 10 of 56					
Connected Term	BBT Term	Submitter	Submission Date	Connection Relation	Connection Id
Organische Materialien	materials	Christos.Georgis	12.09.2018 18:13	Broader Match	2066
Anorganische Materialien	materials	Christos.Georgis	12.09.2018 18:12	Broader Match	2065
Konzeptionelle Objekte	conceptual objects	Christos.Georgis	12.09.2018 18:11	Exact Match	2064
Ereignisse	activities	Christos.Georgis	12.09.2018 18:09	Broader Match	2063
Disziplinen und Fachrichtungen	disciplines	Christos.Georgis	12.09.2018 18:08	Exact Match	2062
Schemas	methods	Tsoulouha	03.08.2018 17:52	Broader Match	2015
Data Policy Functions	functions	Tsoulouha	03.08.2018 17:52	Broader Match	2061
Audience	groups and collectivities	Tsoulouha	03.08.2018 15:44	Broader Match	2010
Parthenos Subjects	propositional objects	Tsoulouha	03.08.2018 15:42	Broader Match	2014
Γεωργία	disciplines	Christos.Georgis	03.08.2018 14:06	Broader Match	2060

Figure 35: Connections list

Each line of the list represents a connection of a BBT term to a term of a local thesaurus. Each column includes information related to the connections:

- **Connected Term:** The name of the Local thesaurus term that is connected to the BBT term
- **BBT Term:** The name of the BBT term to which the Local Thesaurus term is connected.

- **Submitter:** the person who made the connection
- **Submission Date:** the date when the connection was made
- **Connection relation:** displays how the BBT term is related to the Local thesaurus term
- **Connection Id:** An identification number of the connection form given automatically by the system

All connection lines of the list are links that lead to the Connection form in view mode (see section “5.3.3 View a connection”).

Connections tool menu includes a “Create New Connection” button (see section “5.3.2 Create a new connection”) and a “Search Connections” button (see section “5.3.5 Search for connections”).

5.3.1.1 Connections list filters

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user can filter connections from the filter box on the left top side of the list using keywords related to the field content that appears in the columns and rows of the table (Figure 36).

Back Bone Thesaurus
Submissions
Connections
Users

Create New Connection
Search Connections
HOW TO USE

Connections

Filter Table
Entries per page 10

Table of Local Thesauri Connections					
1 to 8 of 8 (filtered of 56)					
Connected Term	BBT Term	Submitter	Submission Date	Connection Relation	Connection Id
Ereignisse	activities	Christos.Georgis	12.09.2018 18:09	Broader Match	2063
Συγκρούσεις	human interactions	Christos.Georgis	03.08.2018 14:03	Broader Match	2042
Πόλεμοι	human interactions	Christos.Georgis	03.08.2018 14:02	Broader Match	2041
Νηστεία	other activities	Christos.Georgis	03.08.2018 13:04	Broader Match	2051
chemical process	activities	Tsoulouha	31.07.2018 17:05	Broader Match	2040
radioactive substance	materials	Tsoulouha	31.07.2018 17:00	Broader Match	2035
cultivation	activities	Tsoulouha	30.07.2018 17:51	Broader Match	2022
crop protection	activities	Tsoulouha	30.07.2018 17:40	Broader Match	2021

Previous
1
Next

Figure 36: Connections list filtered by keyword “acti”

5.3.1.2 Connections actions

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user may select to edit or delete one of his/her own connections or view the BBT term. On the right side of each connection line are the related buttons (Figure 37):

- **Edit Connection:** *(Related user role: owner)* this button opens the edit mode of the connection form. Users can only edit their own connections.
- **Delete Connection:** *(Related user role: owner)* this button allows the user to delete the connection. Users can delete only their own connections. A warning message will appear by clicking the button. *(Related user role: administrator)* Only the *administrator* have the right to delete any connection.
- **Export Thesaurus Connection RDF:** *(Related user role: all)* this button allows the user to export one or more connection(s)/mapping(s) from a specific local thesaurus to BBT concept(s) in an RDF/SKOS file (discussed in detail in section “5.3.6 Export RDF files”).
- **Go to related BBT term or facet:** *(Related user role: all)* this button allows the user to view the BBT term.

Ereignisse	activities	Christos.Georgis	12.09.2018 18:09	Broader Match	2063	
Συγκρούσεις	human interactions	Christos.Georgis	03.08.2018 14:03	Edit Connection Delete Connection Export Thesaurus Connections RDF Go to related BBT term or facet		
Πόλεμοι	human interactions	Christos.Georgis	03.08.2018 14:02			
Νηστεία	other activities	Christos.Georgis	03.08.2018 13:04			

Figure 37: Connections list actions (related to own connections)

The user may select to send messages to other users related to their connections. On the right side of a connection line are the related buttons (Figure 38):

- **Send message to Submitter:** *(Related user role: all)* this button sends a message to the person that created the connection. It opens up a pop up screen allowing the user to write his/her message. The message includes a link to the connection form and the comment of the user. This action is available to all users.

Νηστεία	other activities	Christos.Georgis	03.08.2018 13:04	Broader Match	2051	
chemical process	activities	Tsoulouha	31.07.2018 17:05	Send message to submitter Export Thesaurus Connections RDF Go to related BBT term or facet		
radioactive substance	materials	Tsoulouha	31.07.2018 17:00			

Figure 38: Connections list actions (related to connections of other users)

Notice that the same set of actions is available from the Connection form in view mode that is discussed in detail in section “5.3.3 View a connection”.

5.3.2 Create a new connection

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

In order to create a new Connection, the user has to choose “Create new connection” button from the top left side of the tool menu. The button opens up the connection form in edit mode (Figure 39).

Back Bone Thesaurus Submissions **Connections** Users

Create New Connection Search Connections HOW TO USE

Connections | Connections Form (edit mode)

Form for editing a new connection of a local thesaurus with the BBT edit mode

Submitter: Christos.Georgis Submission Date: 22.09.2018 Version: 1.2

BBT Term name*
symbolic objects (Term) Go to BTT

Information related to connected term

Connected Term Name*
Αλφάβητα

Connected Term URI*
http://83.212.173.34:8080/THEMAS-EL-DEMOS/HUMANITIES/Concept/361

Connected Term Relation
Broader Match

Information related to connected thesaurus

Thesaurus Name
HUMANITIES

Thesaurus Submitter	Christos.Georgis
Thesaurus Description	Humanities - Ακαδημία Αθηνών
Thesaurus URI	http://83.212.173.34:8080/THEMAS-EL-DEMOS#HUMANITIES
Sparql-Endpoint	http://83.212.173.34:8080/THEMAS-EL-DEMOS/sparql/HUMANITIES
Thesaurus RDF File URL	http://83.212.173.34:8080/THEMAS-EL-DEMOS/files/HUMANITIES.rdf
Thesaurus with Connections RDF File URL	http://83.212.173.34:8080/THEMAS-EL-DEMOS/files/HUMANITIES_connected.rdf

Save

Figure 39: Connection form (edit mode)

The connection form page is divided in the following parts:

- **Breadcrumbs:** They are located on the left top side of the page and help the user navigate back to the main page of the Connections tab-section.
- **Form Title:** On the right side of this area (in the orange color) the mode (edit/view) of the form is mentioned (here edit mode).
- **Admin related Info:** The area in grey color displays information such as: the username of the creator of the connection, the date of the creation of the

connection and the version of the BBT to which the referred BBT term belongs. These fields are not editable.

(BBT term related info)

- **BBT Term name:** Here the name of a BBT term must be added. Enter the first letter of the term and choose a BBT term from the dropdown list. This field is obligatory.

(info related to the term of the local thesaurus and its relation to the BBT term)

- **Connected Term name:** In this field the name of the term to be connected to the BBT term, is added. This field is obligatory.
- **Connected Term URI:** In this field the URI of the term to be connected to the BBT term, is added. This is the URI of the term in the local thesaurus. This field is obligatory.
- **Connected Term Relation:** In this field the type relation that the connected term (term to be connected) has with the BBT term, is added. It can have one of the two values: Broader Match, Exact Match.

(local thesaurus related info)

- **Thesaurus name:** In this field the name of the local thesaurus to which the connected term belongs can be selected. This is a controlled vocabulary field. By typing the first letter of the thesaurus, a list of thesauri names appears in a dropdown list. If the thesaurus name does not exist in the list, the user can add a new Thesaurus. The user can also modify or delete a thesaurus name from the list. This functionality is described in detail in section “5.3.2.1 Edit Thesaurus information”.
- All other **thesaurus related information fields** such as thesaurus submitter, thesaurus description, thesaurus URI, etc. are also described in detail in section “5.3.2.1 Edit Thesaurus information”.

By using the “Save” button the connection form information is saved and added to the list of connections.

5.3.2.1 Edit Thesaurus information

Related user role: thesaurus submitter, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

The user that creates a connection can also add, edit or delete a thesaurus name and its related information. If the thesaurus name does not exist in the list, the user can choose “Add New Thesaurus” (cross icon) button at the right side of the field (*Figure 39*). If the user wants to modify or to delete a thesaurus name (and its related information) then he/she can choose an existing name and then click on the “Edit Thesaurus” (pencil icon) or on “Delete Thesaurus” (wastebasket icon).

Only the thesaurus names that the user has added can be deleted or edited. *(Related user role: administrator)* The administrator can also delete any thesaurus from the list.

If the user chooses to delete a thesaurus that is used by another connection(s) then an error message appears to inform him/her about the related connections and the deletion fails.

When a user chooses to add or edit a thesaurus name and its related information, an Edit Thesaurus form opens up (*Figure 40*). The form has the following specific fields:

- **Thesaurus name:** In this field the user can add the local thesaurus name. This field is obligatory.
- **Thesaurus Submitter:** In this field we display the user that added the thesaurus name and all related information (given automatically by the system, available in view mode only).
- **Thesaurus description:** In this field the user can add a short description of the local thesaurus.
- **Thesaurus URI:** In this field the user can add the URI of the local thesaurus. This field is obligatory.
- **Sparql-Endpoint:** In this field the user can add the URI of the local thesaurus SPARQL-endpoint.
- **Thesaurus RDF File URL:** In this field the user can add the URL of the RDF/SKOS file containing the current version of the local thesaurus.
- **Connections RDF File URL:** In this field the user can add the URL of the RDF/SKOS file containing the connections/mappings from the local thesaurus concepts to BBT concepts.

Figure 40: Thesaurus form

5.3.3 View a connection

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

When choosing a row of the table (which is a link to a specific Connection form) the Connection form in view mode opens up.

The Connection form page is divided in the following parts (described also in section “5.3.2 Create a new connection”):

- The *top part* which includes the breadcrumbs, the form title and the admin related Info, such as the username and the institution of the submitter of the connection, the date of the creation of the connection, the version of the BBT to which the referred BBT term belongs and the Connection Id etc.
- The *main part* of the page includes all the information about the connection. It contains the name of the BBT term and all the information that is related to the connected term of the local thesaurus (namely: connected term name, connected term URI, connected term relation to the BBT term).
- Finally, the *bottom part* that includes all the information that is related to the local thesaurus itself (namely thesaurus name, description, thesaurus URI relative RDF/SKOS files, etc).

At the bottom of the form are located action buttons related to the connection. Notice that actions depend on the ownership of the connection. The actions are discussed in detail in section “5.3.1.2 Connections actions”.

Back Bone Thesaurus Submissions **Connections** Users

⚙️ Create New Connection 🔍 Search Connections 📖 HOW TO USE

Connections | Connections Form (view mode)

Form for creating a new connection of a local thesaurus with the BBT		view mode
Submitter: Christos Georgis	Institution: ICS-FORTH	Field of Interest: Thesauri Technologies
Submission Date: 22.09.2018	Version: 1.2	Connection Id: 2056
BBT Term name	symbolic objects	
Connected Term Name	Αλφάβητα	
Connected Term URI	http://83.212.173.34:8080/THEMAS-EL-DEMOS/HUMANITIES/Concept/361	
Connected Term Relation	Broader Match	
Thesaurus Name	HUMANITIES	
Thesaurus Submitter	Christos.Georgis	
Thesaurus Description	Humanities - Ακαδημία Αθηνών	
Thesaurus URI	http://83.212.173.34:8080/THEMAS-EL-DEMOS#HUMANITIES	
Sparql-Endpoint	http://83.212.173.34:8080/THEMAS-EL-DEMOS/sparql/HUMANITIES	
Thesaurus SKOS File URL	http://83.212.173.34:8080/THEMAS-EL-DEMOS/files/HUMANITIES.rdf	
Connections SKOS File URL	http://83.212.173.34:8080/THEMAS-EL-DEMOS/files/HUMANITIES_connected.rdf	

📄 Export Thesaurus Connections SKOS ✎ Edit Connection 🗑️ Delete Connection

Figure 41: Connection form (view mode)

5.3.4 Edit a connection

Related user role: owner (applies to the entire section apart of paragraphs with other indication in the beginning)

There are two ways the connection owner can edit a connection: (a) by selecting a connection in the table of connections and choose the “Edit Connection” button (Figure

37) on the right side of the table row (also described in section “5.3.1.2 *Connections actions*”) and (b) by selecting the “Edit Connection” button in the Connection form in view mode (*Figure 41*).

Notice that editable are only the connections owned by the user.

When the Connection form in edit mode appears, all fields are filled with information from the selected connection. A detailed description of the form can be found in section “5.3.2 *Create a new connection*”.

5.3.5 Search for connections

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user may search for a connection by adding the following criteria (*Figure 42*):

- BBT Term Name
- Connected Term Name
- Connected Term URI
- Connected Term Relation
- Thesaurus Name
- Connection Id
- Submitter
- Submission date

Connections | Search Connections

Search Connections

BBT Term name

Connected Term Name

Connected Term URI

Connected Term Relation

Thesaurus Name

Connection Id

Submitter

Submission Date
From To

Figure 42: Connection Search Form

5.3.6 Export RDF files

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

Connections made in BBTalk may be needed by the local thesauri maintainers to generate the RDF/SKOS file that contains the current version of the local thesaurus and the connections/mappings to related BBT concepts. This file is needed to be uploaded to BBT-browser, in order to keep the browser updated with the current version of the local thesaurus.

In order to facilitate this procedure BBTalk allows the user to export one or all the connection(s)/mapping(s) from a specific local thesaurus to BBT concept(s) in an RDF/SKOS file (*Figure 43*). The file is then exported and downloaded. The content of this file can be appended into the RDF/SKOS file containing the current version of the local thesaurus.

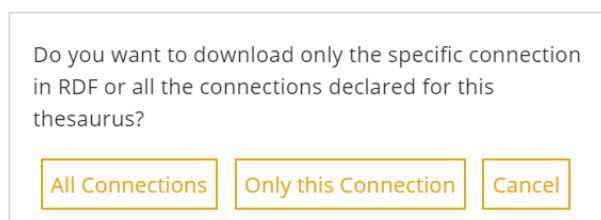


Figure 43: Exporting RDF files message

5.4 Implement New Release

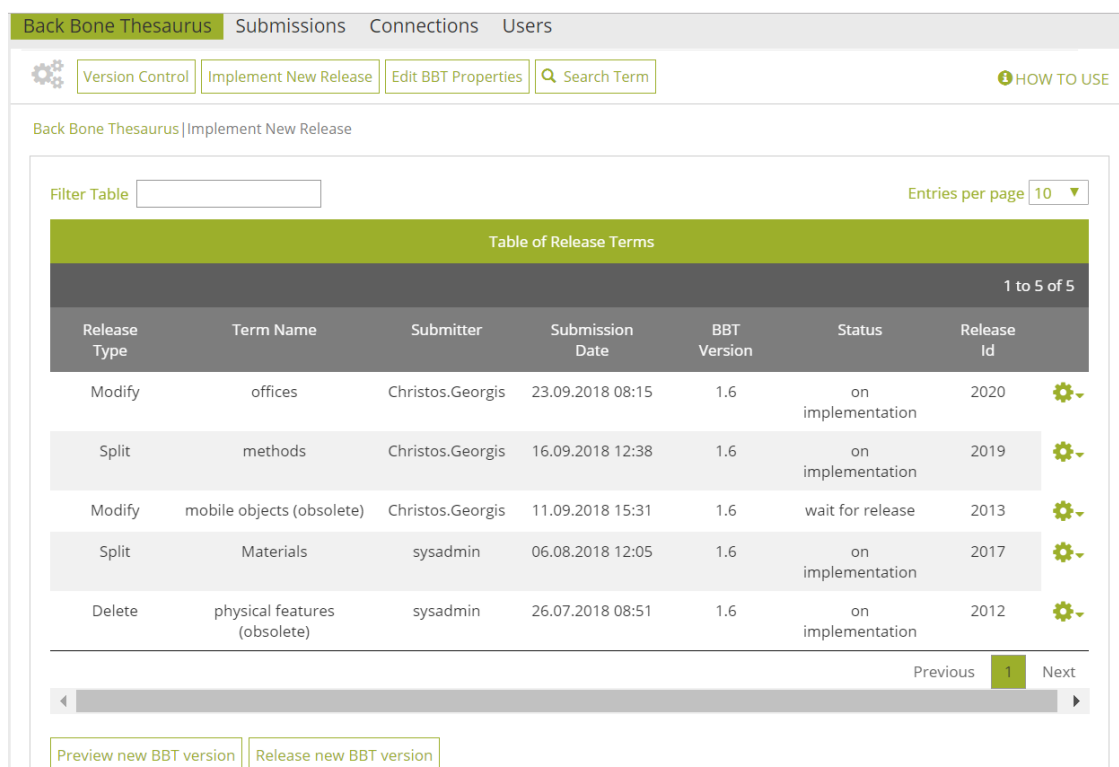
Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

In this section, we describe how users can create a new BBT version, by inspecting and implementing the submissions accepted for implementation (we call these submissions -under implementation- *release terms submissions*), how users can preview the new "un-released" version, and finally how users can make release of the new BBT version to the public.

5.4.1 View release terms list

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

When the button "Implement New Release" from the Backbone Thesaurus tool menu is selected (*Figure 5*), the list of all release terms submissions (submissions entries that are under status "accepted") appears in the main area (*Figure 44*). Release terms submissions are listed by most recent entry date.



The screenshot shows the 'Back Bone Thesaurus' interface with the 'Implement New Release' tab selected. At the top, there are navigation links: 'Version Control', 'Implement New Release', 'Edit BBT Properties', and 'Search Term'. A 'Filter Table' input box is on the left, and 'Entries per page 10' is on the right. The main content is a table titled 'Table of Release Terms' with 7 columns: Release Type, Term Name, Submitter, Submission Date, BBT Version, Status, and Release Id. The table contains 5 rows of data. Below the table is a pagination bar with 'Previous', '1', and 'Next' buttons. At the bottom, there are two buttons: 'Preview new BBT version' and 'Release new BBT version'.

Release Type	Term Name	Submitter	Submission Date	BBT Version	Status	Release Id
Modify	offices	Christos.Georgis	23.09.2018 08:15	1.6	on implementation	2020
Split	methods	Christos.Georgis	16.09.2018 12:38	1.6	on implementation	2019
Modify	mobile objects (obsolete)	Christos.Georgis	11.09.2018 15:31	1.6	wait for release	2013
Split	Materials	sysadmin	06.08.2018 12:05	1.6	on implementation	2017
Delete	physical features (obsolete)	sysadmin	26.07.2018 08:51	1.6	on implementation	2012

Figure 44: Release terms list results

Each line of the list represents a release term. Each column includes information related to the release term submission:

- **Submission Type:** the type of release term submission (e.g. proposal for splitting a term)
- **Term Name:** the term of the BBT the release term submission refers to
- **Submitter:** the user who made the release term submission
- **Submission Date:** the date of release term submission
- **BBT Version:** the version number of the BBT on which the release term submission was made
- **Status:** the status of the release term submission
- **Submission Id:** An identification number of the submission given automatically by the system

All release term submission lines of the list are links that lead to the Release form in view mode. The form is quite similar to the Submission form (see section “5.4.2 View a release term”).

5.4.1.1 Release terms list filters

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

The user can filter release term submission from the filter box on the left top side of the list using keywords related to the field content that appears in the columns and rows of the table (Figure 45).

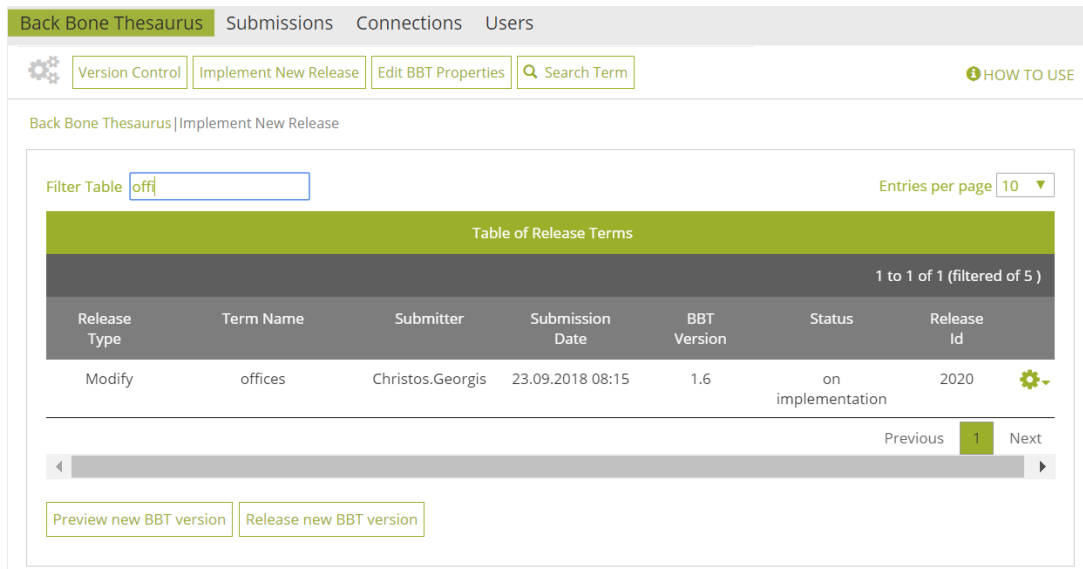


Figure 45: Release terms list results: filtered by keyword “offi”

5.4.1.2 Release term form actions

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

On the right side of each release term submission line are located the action buttons (Figure 46). Notice that actions depend on the status of the release term submission:

- **Edit Release Term:** this button opens the Release form in edit mode. Users can only edit the release term submissions status “on implementation”.
- **Remove from release:** this button allows the user to declare that the release term submission that was ready needs to get revised. The release term submissions status is changed from “wait for release” to “on implementation”. Now changes are allowed in this release term submission.
- **Go to related BBT term or facet:** this button allows the user to view the BBT term.

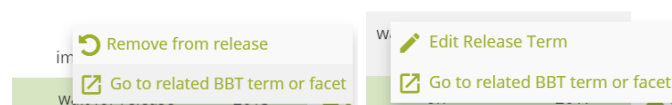


Figure 46: Release term form actions

Notice that the same set of actions is available from the Release form in view mode that is discussed in section “5.4.2 View a release term”.

5.4.2 View a release term

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

The Release form in view mode (Figure 47) is quite similar to the Submission form in view mode (see section “5.4.2 View a release term”). The form includes all the information that is related to the BBT term. The fields depend on the submission type

(splitting a term, delete a term etc.). These fields are described in detail in sections 5.2.3.2 to 5.2.3.6.

At the bottom of the form are located action buttons related to the release term submission. Notice that actions depend on the status of the release term submission. The actions are discussed in detail in section “5.4.1.2 Release term form actions”.

By selecting “View Discussion” action the lower part of the Submission form (view mode) expands and reveals the discussion area.

Back Bone Thesaurus | Implement New Release | Release Form (view mode)

The screenshot shows a web form titled "Release form for modifying BBT term or Facet" in "view mode". The form contains the following fields:

- BBT Term or Facet Name:** offices
- New BBT Term or Facet name:** offices
- Type:** Term
- Scope Note:** This term classifies official roles attributed to ~~persons or social groups~~ individuals, which grant ~~them~~ rights and/or dictate obligations in relation to ~~either the functioning of~~ exerting these rights and/or to the performing of administrative and management duties of institutional bodies. These properties are institutionally and socially recognized and acquire meaning only in the context of an organized community.
- Broader Term:** roles
- Justification:** The proposed change in the scope note of the term (i.e. substituting "attributed to individuals" for "attributed to persons or social groups") can be thought of as unimportant, but, in fact, makes much of a difference. Adding "social groups" in the scope note hinders the distinction between Offices on the one hand and Groups and Collectivities on the other, as the distributive reading -i.e. a set of relations/official roles attributed to individuals within a group -is systematically downplayed. At the same time, the role assigned to a certain social group as a whole, could be identical to its function, its actions, its goals and aspirations etc, thus increasing the ambiguity.

At the bottom of the form, there are two buttons: "Edit Release Term" and "Hide Discussion". Below these buttons is a section titled "Discussion" which contains the following text:

Martin.Doerr : Submission Date: 23.09.2018
 An alternative would be to keep the original scope note but try to make sure that the distributive reading becomes salient -that the roles are attributed to persons or to individuals making up a specific social group and pertain to the group itself, for instance.

Figure 47: Release term form – view mode

5.4.3 Edit a release term

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

The Release form in edit mode (Figure 48) is quite similar to the Submission form in edit mode (see section “5.2.8 Edit a submission”). The form includes all the information that is related to the BBT term. The fields depend on the submission type (splitting a term, delete a term etc.). These fields are described in detail in sections 5.2.3.2 to 5.2.3.6.

When the Release form in edit mode appears, all fields are filled with information from the original submission. The user has to open the submission discussion, by selecting “View discussion”, then manually collect the agreed information that was the result of the discussion and finally insert it in the various fields of the form accordingly.

By using this “Save” the release term submission is saved and its status remains “on implementation”. By using this “Add to Release” the user declares that the Release term is ready to be released in the new version of BBT. The release term submissions status is changed from “on implementation” to “wait for release”. No more changes are allowed in this release term submission.

Notice that editable are only the release term submissions with status “on implementation”.

Back Bone Thesaurus | Implement New Release | Release Form

Release form for modifying BBT term or Facet edit mode

Choose the BBT term or facet you want to modify:
 Go to BTT

New BBT Term or Facet name* Type*

New BBT Term or Facet Scope Note* +
 This term classifies official roles attributed to individuals, which grant them rights and/or dictate obligations in relation to exerting these rights and/or to performing of administrative and management duties of institutional bodies. These properties are institutionally and socially recognized and acquire meaning only in the context of an organized community.

Add translation

Broader Term + Go to BTT

Justification

The proposed change in the scope note of the term (i.e. substituting "attributed to individuals" for "attributed to persons or social groups") can be thought of as unimportant, but, in fact, makes much of a difference. Adding "social groups" in the scope note hinders the distinction between Offices on the one hand and Groups and Collectivities on the other, as the distributive reading -i.e. a set of relations/official roles attributed to individuals within a group -is systematically downplayed. At the same time, the role assigned to a certain social group as a whole, could be identical to its function, its actions, its goals and aspirations etc, thus increasing the ambiguity.

Hide Discussion

Discussion

Martin.Doerr : Submission Date: 23.09.2018
 An alternative would be to keep the original scope note but try to make sure that the distributive reading becomes salient -that the roles are attributed to persons or to individuals making up a specific social group and pertain to the group itself, for instance.

Save Add to Release

Figure 48: Release term form – edit mode

5.4.4 Preview new BBT version

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

When the action “Preview new BBT version” is selected the tree of the proposed new (under implementation) of BBT appears (Figure 49). The layout of the tree is quite similar to the one described in section “5.1.1 BackBone Thesaurus – tree view”. “Facets” appear in a dark grey line, while the “top term” of the facet itself appear in a

lighter grey line. All terms that belong under a facet (“hierarchies”), appear in a light colored line beneath the facet. All lines in the BBT tree are links that lead to the term forms.

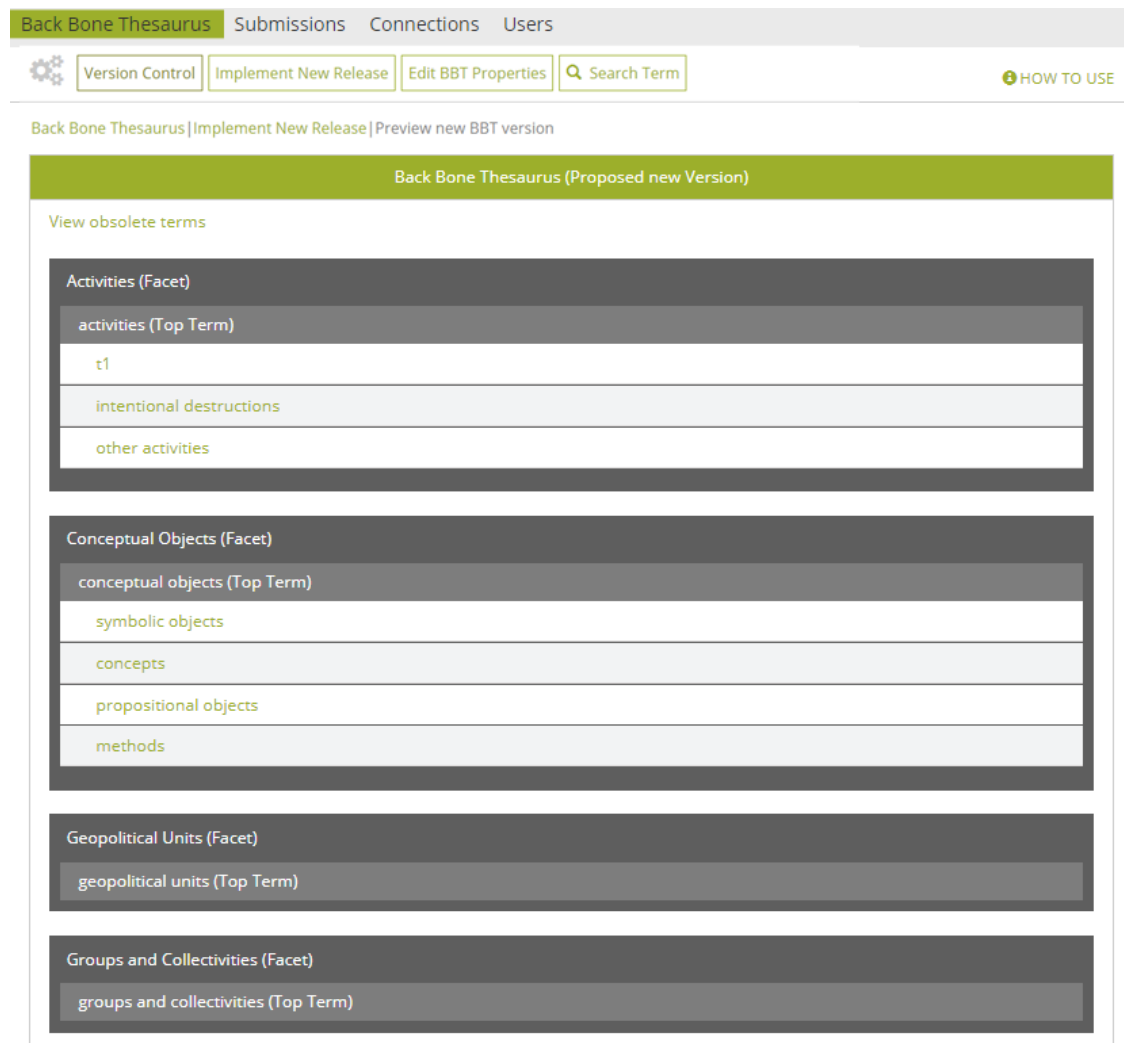


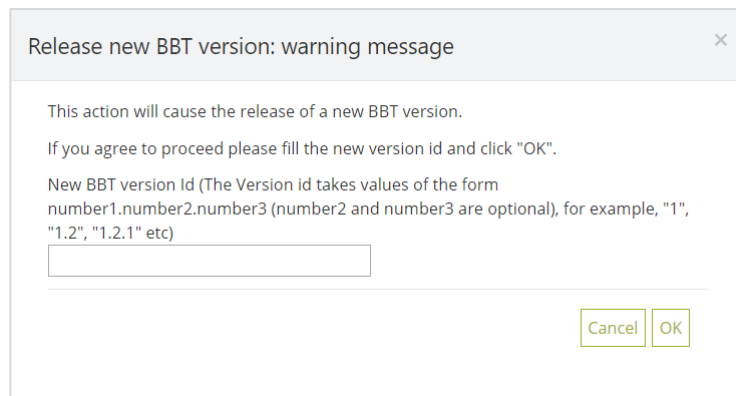
Figure 49: Preview new BBT version – tree view

5.4.5 Release new BBT version

Related user role: curator, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

When the action “Release New BBT Version” is selected a new version of the BBT is about to get released, based on all release term submissions under status “wait for release”. A pop up message appears prompting the user to provide a new number to the version that is about to be released (Figure 50). The new version number may have the form *number1.number2.number3*, where *number1* denotes the major-version, *number2* denotes the minor-version (optional) and *number3* denotes the revision (optional). For example a version number may be “1”, “1.2”, “1.2.1”, etc. The release is taking place with user selecting OK button.

The release terms submissions under status on implementation will not be part of the new release and will stay in this status for future releases.



Release new BBT version: warning message

This action will cause the release of a new BBT version.

If you agree to proceed please fill the new version id and click "OK".

New BBT version Id (The Version id takes values of the form number1.number2.number3 (number2 and number3 are optional), for example, "1", "1.2", "1.2.1" etc)

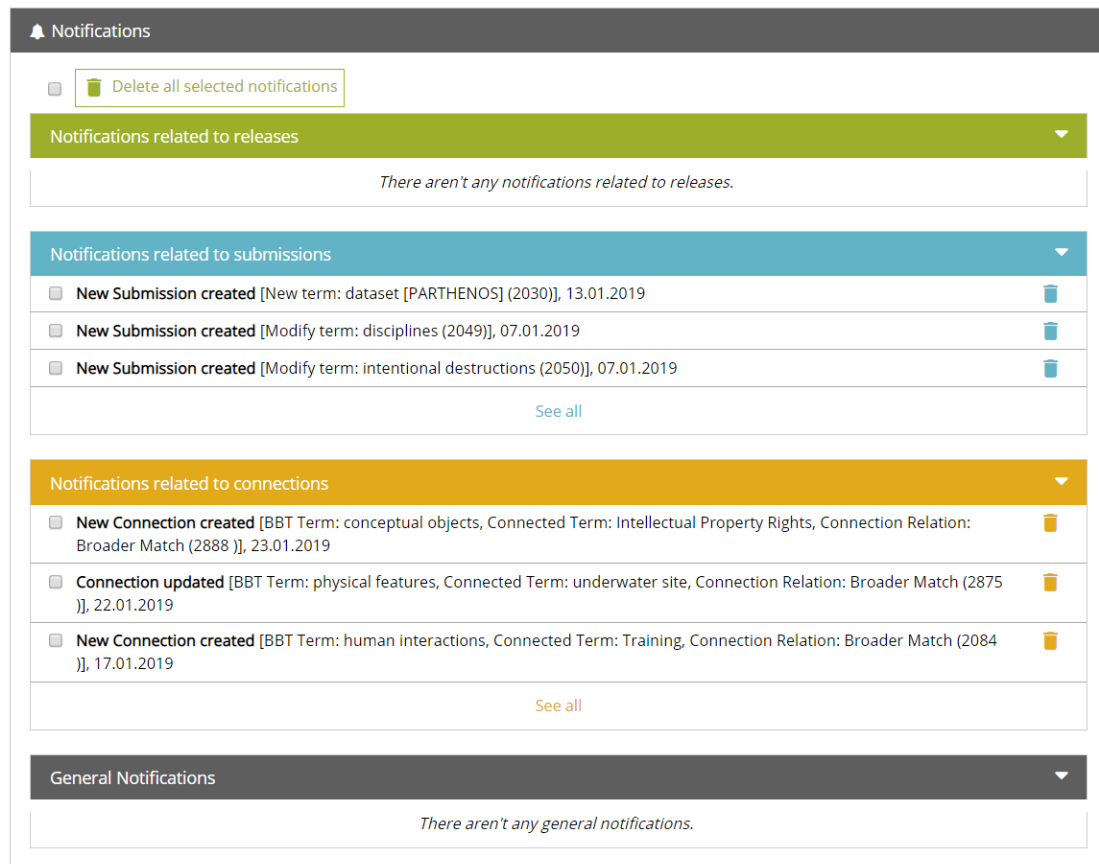
Cancel OK

Figure 50: Release new BBT version message

5.5 Notification mechanism

Related user role: all (applies to the entire chapter apart from paragraphs with other indication in the beginning)

When the "Notifications" button is selected, the list of all the nonfictions available to the users appear as a list in the main area (Figure 51). The notifications are grouped in four groups: (a) release related, (b) submission related, (c) connection related and (d) general notifications.



Notifications

☐ Delete all selected notifications

Notifications related to releases

There aren't any notifications related to releases.

Notifications related to submissions

- ☐ New Submission created [New term: dataset [PARHENOS] (2030)], 13.01.2019
- ☐ New Submission created [Modify term: disciplines (2049)], 07.01.2019
- ☐ New Submission created [Modify term: intentional destructions (2050)], 07.01.2019

[See all](#)

Notifications related to connections

- ☐ New Connection created [BBT Term: conceptual objects, Connected Term: Intellectual Property Rights, Connection Relation: Broader Match (2888)], 23.01.2019
- ☐ Connection updated [BBT Term: physical features, Connected Term: underwater site, Connection Relation: Broader Match (2875)], 22.01.2019
- ☐ New Connection created [BBT Term: human interactions, Connected Term: Training, Connection Relation: Broader Match (2084)], 17.01.2019

[See all](#)

General Notifications

There aren't any general notifications.

Figure 51: Notifications list

Notifications are listed by most recent date. Only the three first notifications from each group are immediately available to the user. In order to access all the notifications the user must select “See all” link. The user can mark one or more notifications and delete them.

Note that if there are new unread notifications for the user the “Notifications” button changes its color to green and once the user selects the “Notifications” button and the list of notifications appears, the button resets to its default color (white).

5.6 Users

In this section we describe how users can edit their personal profile information and send messages to the *administrator* (*Account Settings and Contact SysAdmin* options of “User Account” section) and how the *administrator* may manage user accounts (Users tab-section).

5.6.1 View and edit user profile information

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The upper right menu includes the “User Account” section with *Account Settings*, *Contact SysAdmin* and *Logout* options (Figure 52). By selecting Account Settings, the user can view and edit public and personal user information, using the Account Settings form.

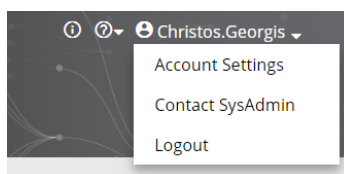


Figure 52: Account Settings option of the upper right menu

The Account Settings form (Figure 53) includes the following fields:

- **Username:** This field is taken automatically by the system and is not editable.
- **Role:** This field is taken automatically by the system and is not editable.
- **Firstname and lastname:** This information can be added by the user. This field is not obligatory.
- **E-mail address:** This field is taken automatically by the system and is not editable.
- **Institution:** This field may contain information about the institution of the user. This field is not obligatory.
- **Field of interest:** This field may contain information about the research interests of the user. This field is not obligatory.

All this information (except Username) is considered personal information and is visible only to the user, to the *curators*, the *reviewers* and the *administrator*, or used by the system without public display.

bbtalk
submission and connection management tool

Back Bone Thesaurus Submissions Connections

Account Settings

Username Christos.Georgis

Role Contributor

Firstname
Christos

Lastname
Georgis

Email*
georgis@forth.gr

Institution
ICS-FORTH

Field of Interest
Thesauri Technologies

Submit Changes

Request Role Change Change Password

System Version: 2.0

center of cultural informatics

Terms of Use | Privacy Policy | © 2015-2018 FORTH-ICS

Figure 53: Account Settings form

The user can request to change his/her role by selecting the action “Request Role Change” in the lower left side of the form. This action opens up a pop up screen allowing the user to choose a role. This pop up screen contains the following fields (Figure 54Figure 55):

- **Choose the new user role:** The user may select one of the roles displayed. This field is obligatory.
- **Message to the administrator:** The user may type a message to the administrator in the text box to justify the reason for the role. This field is not obligatory.

Request to change User Role

Choose the new user role

☐ SysAdmin
 ☐ Curator
 ☐ Reviewer
 ☐ Contributor

Type your message to the SysAdmin in the text box below. Justify the reason you want to change your role.

Send

Figure 54: Request to change User Role pop up screen

The user can change his/her password by selecting the action “Change Password”. The Change Password form contains the following obligatory fields (*Figure 55*):

- **Current password:** The user should type his/her current password before changing it.
- **New password:** The user should add the new user password.
- **Verify password:** The user should verify that the new password is typed correctly.

Change Password

Current Password*

Password*

Verify Password*

OK

Figure 55: Change Password form

5.6.2 Contact the system administrator

Related user role: all (applies to the entire section apart of paragraphs with other indication in the beginning)

The user can contact the *administrator* by selecting *Contact SysAdmin* option from “User Account” section (Figure 52). This action opens up a pop up screen allowing the user to write his/her message to the *administrator* (Figure 56).

Figure 56: Contact Administrator pop up screen

5.6.3 Users list

Related user role: curator, reviewer, administrator (applies to the entire section apart of paragraphs with other indication in the beginning)

Back Bone Thesaurus Submissions Connections **Users**

Users

Filter Table Entries per page 10 ▼

Table of Users						
1 to 10 of 13						
Firstname	Lastname	Username	Email	Role	Institution	Field of Interest
System	Administrator	sysadmin	...	SysAdmin	FORTH	adminimistration
		fhelfer	...	Reviewer		
Helene	Gautier	hgautier	...	Reviewer	CNRS/Huma-Num	
Maurizio	Sanesi	MaurizioSanesi	...	Reviewer	SISMEL	Cultural Heritage, H...
Eleni	Tsouloucha	Tsoulouha	...	Curator		
Martin	Doerr	martin_doerr	...	Curator	ICS-FORTH	ontology engineering
George	Bruseker	habennin	...	Curator	ICS-FORTH	Philosophy
Ksenia	Zaytseva	kzaytseva	...	Contributor	Austrian Centre for ...	Digital Humanities
Christos	Georgis	Christos.Georgis	...	Contributor	ICS-FORTH	Thesauri Technologies
Gerasimos	Chrysoitsanos	gchrysoitsanos	...	Contributor	Academy of Athens	Archaeology; Epigrap...

Figure 57: Users list

When the Users tab-section is selected (visible only to the *curators*, the *reviewers*, and the *administrator*), a list with all users appears with all relative information displayed: username, first name, last name, e-mail, filed of interest, etc. (Figure 57).

(*Related user role: administrator*) Actions are available only to the administrator. The administrator may select (Figure 58) to delete a user, deactivate a user, or assign a user with a different role (Figure 59). Whether a user should be deleted or deactivated depends on whether he/she owns submissions or has made comments to submissions.

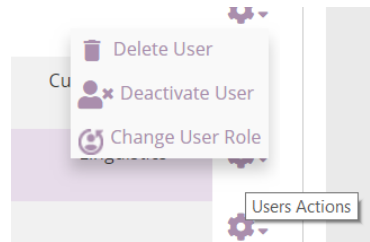


Figure 58: Users list actions (available only the administrator)

Change User Role

Username: sysadmin

Choose the new user role

☒ SysAdmin

☐ Curator

☐ Reviewer

☐ Contributor

Apply

Figure 59: Change User Role