

ISO Geodetic Registry

User Guide
Version 1.6

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bespire

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Contents

- 1 Introduction 1
 - 1.1 What is the ISO Geodetic Registry? 1
- 2 Getting started 2
 - 2.1 The Registry website 2
 - 2.2 Browsing Registry content 2
 - 2.3 List of registered items 2
 - 2.4 Item details 4
 - 2.5 Sign up for the Registry 5
 - 2.6 Manage your account 7
- 3 The Registry in detail 9
 - 3.1 Registers 9
 - 3.2 Item classes 9
 - 3.3 Roles 9
- 4 Submitting proposals 11
 - 4.1 Prerequisites 11
 - 4.2 Submitting new content 12
 - 4.3 Clarifying an item 14
 - 4.4 Superseding an item 14
 - 4.5 Invalidating an item 15
 - 4.6 Retiring an item 15
- 5 Managing proposals 16
 - 5.1 Tasks as a submitter 16
 - 5.1.1 Discussing a proposal 16
 - 5.1.2 Withdrawing a proposal 18
 - 5.1.3 Submitting saved proposals 18
 - 5.1.4 Appealing the control body decision 18
 - 5.2 Tasks as a register manager 19
 - 5.3 Tasks as a control body member 20
 - 5.4 Discussing a proposal 20
 - 5.5 Deciding a proposal 21
- 6 Managing your organization 22
 - 6.1 Tasks as an organization’s Point of Contact 22

6.2	Delegating rights to organization user	23
6.3	Managing role requests	24
7	Bibliography	25
8	List of figures	25
9	List of tables.....	26

1 Introduction

This document is a manual for users of the *ISO Geodetic Registry*.

1.1 What is the ISO Geodetic Registry?

The *ISO Geodetic Registry* is a structured database of coordinate reference systems and transformations that is accessible through an on-line registry system.

This Registry is provided under the auspices of ISO Technical Committee 211 on geographic information/geomatics and conforms to ISO standards ISO 19111:2007 (Spatial referencing by coordinates), soon to be published ISO/TS 19127 (Geodetic register), ISO 19135:2005 (Procedures for item registration) and its soon to be published revision ISO 19135-1 (Procedures for item registration - Part 1: Fundamentals), and ISO 19135-2:2012 (Procedures for item registration -- Part 2: XML schema implementation).


Users of the Registry may query and view data and generate reports via anonymous guest access. Registered users may also submit proposals for new additions or clarifications to the Registry.

2 Getting started

2.1 The Registry website

The user interface of the online Registry system displays an application menu containing links to all Registry sections accessible to the user, including a list of registers and their respective contained item classes.

2.2 Browsing Registry content

To browse the content of the *ISO Geodetic Register*, click on the register's name in the application menu. If you wish to display only registered items of a certain type, click on one of the item class groups (e. g. *Coordinate Reference Systems*) or an individual item class (e. g. *Geodetic CRS*). If the item class you want to select is not visible, make sure you have opened the corresponding item class group by clicking on the  symbol positioned on the left of the item class group.

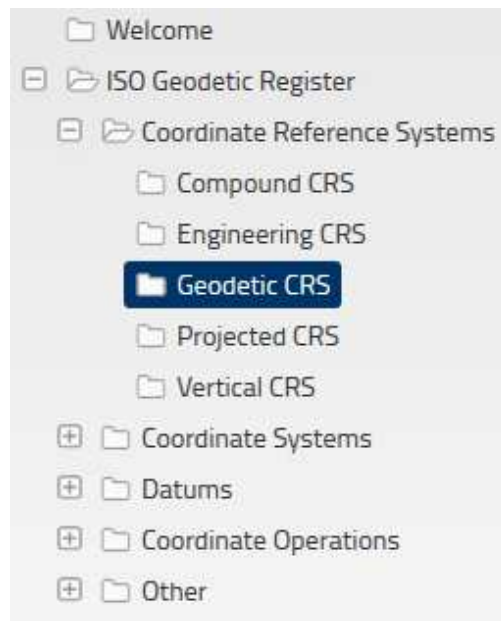


Fig. 1 – Item classes within an item class group

2.3 List of registered items

When you click on an item class group or individual item class, you will be presented with a list of items of that class or classes registered in the *ISO Geodetic Register*.

To sort the list, click on the column header (e. g. *Name*). To filter the list of items, enter your search keyword in the Search input box situated on the top right side of the list.

Geodetic CRS

[Overview](#)

[Contents](#)

Show items per page

Identifier ▲	Name	Item class	Status	
4171	RGF93	Geodetic CRS	valid	Details
4230	ED50	Geodetic CRS	valid	Details
4258	ETRS89	Geodetic CRS	valid	Details
4267	NAD27	Geodetic CRS	valid	Details
4269	NAD83	Geodetic CRS	valid	Details
4275	NTF	Geodetic CRS	valid	Details
4283	GDA94	Geodetic CRS	valid	Details
4313	Belge 1972	Geodetic CRS	valid	Details
4807	NTF (Paris)	Geodetic CRS	valid	Details
4896	ITRF2005	Geodetic CRS	valid	Details

Showing 1 to 10 of 19 items

[← Previous](#) [1](#) [2](#) [Next →](#)

Fig. 2 - List of registered items

2.4 Item details

To inspect the details of a registered item, open the list of registered items as described in the previous section and click on the Details button next to item you wish to view. You may wish to sort or filter the item list in order to find the desired item. After clicking on the Details button, you will be redirected to a detailed description of the register item.

The screenshot displays the 'Item details' page for a 'Geodetic CRS'. At the top, there are two tabs: 'Item details' (active) and 'Management information'. A 'Download PDF' button is located in the top right corner. The main content area is divided into several sections:

- Name:** ITRF94 - LatLon
- Identifier:** 182
- Extent:** World.
- Datum:** International Terrestrial Reference Frame 1994.
- Coordinate System:** Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree.
- Base CRS:** [undefined]
- Operation:** [undefined]
- Information Source:** Results and analysis of ITRF94

Below the main details, there is a section for 'Alias' with a list of two items: 'IERS Terrestrial Reference Frame 1994' and 'International Terrestrial Reference Frame 1994'. A pagination control shows 'Showing 1 to 2 of 2 items' with 'Previous', '1', and 'Next' buttons.

Other sections include 'Scope' (Spatial referencing) and 'Remarks' (Replaces ITRF93 - LatLon. Replaced by ITRF96 - LatLon).

Fig. 3 - Details of a registered item

The details view of a register item may contain textual attributes, lists as well as references to other registered items. References to other registered items are displayed as [blue links](#). You can use these links to navigate directly to the details view of the referenced item.

Management information

To access additional management information of a registered item, click on the *Management information* tab on the item details page. The management information tab contains information about the following events:

- Addition of the item to the register (green header)
- Clarifications of item details (blue header)
- Supersession of the item (yellow header)
- Retirement of the item (red header)
- Proposed or denied changes of any kind (grey header)

Item details		Management information
Item added on 2014-09-26		
Sponsor	ISO/TC 211	
Date proposed	2014-09-26	
Justification	Import from EPSG Geodetic Parameter Data Set v7.6	
Date disposed	2014-09-26	
Disposition	accepted	
Status	final	
Control body decision event	Import from EPSG Geodetic Parameter Data Set v7.6	

Fig. 4 - Management information of a register item

For each event the following properties will be displayed:

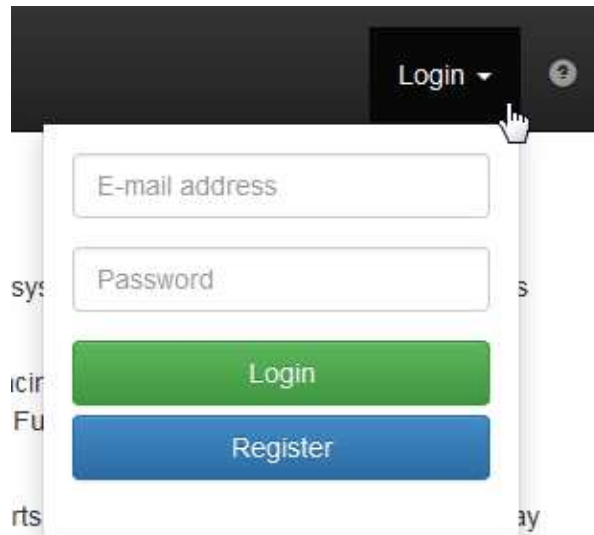
Property	Description
Sponsor	The organization that proposed the change.
Date proposed	The date the sponsor organization proposed the change.
Justification	The justification for the change provided by the sponsor organization.
Date disposed	The date the control body of the <i>ISO Geodetic Register</i> decided on the proposal.
Disposition	The control body's decision (<i>accepted</i> or <i>rejected</i>) or <i>withdrawn</i> if the proposal was withdrawn by the sponsor organizations before a decision was made by the control body.
Status	The status of the proposal (<i>pending</i> , <i>final</i> , <i>tentative</i>).
Control body decision event	The event or meeting where the proposal decision was made by the control body.

Tab. 1 - Proposal management information

2.5 Sign up for the Registry

In order to be able to submit new content to the *ISO Geodetic Registry* or propose changes to existing contents, you will need to create a user account and subsequently log in to the registry software.

To start the registration process, first click on *Login* in the upper right corner of the page and then click on the *Register* button. Please note that in case the open user registration has been disabled, the Register button is not visible. Please contact the register manager in this case to request a user account.



See [here](#) in the [registry user's guide](#).

Fig. 5 - The Login dropdown

Now fill out all fields of the user registration dialog and make sure that your e-mail address is spelt correctly. If your organization is not in the list of organizations, check the *My organization is not listed* box. Enter the name of your organization on the following page and press *Save*.

Sign up

Name

Email address

Password

Confirm password

Organization

My organization is not listed

Fig. 6 – The sign-up form

The sign-up form contains the following fields:

Field	Description
Name	Your full name

E-mail address	A valid e-mail address. All registry-related e-mails will be sent to this account.
Password	Your password needed for subsequent logins to the registry website.
Confirm password	The same password for confirmation
Organization	Select the organization you are affiliated with. The selection of the organization influences which roles you may assume in the registry and in whose name you may make proposals to the registry, so make sure that you select the correct organization.
My organization is not listed	In case your organization is not listed, you must check this box and subsequently provide the name of your organization. By creating a new organization you will automatically become that organization's Point of Contact.

Tab. 2 - Signup form fields

You will receive an e-mail to confirm your registration. Please follow the instructions in the e-mail and open the contained confirmation link in your web browser.


Create organization

The screenshot shows a web form titled 'Create organization'. At the top, there is a section labeled 'Master data'. Below this, there is a 'Name' label followed by a text input field containing the text 'ACME, Inc.'. At the bottom of the form, there are two buttons: a blue 'Save' button and a grey 'Cancel' button.

Fig. 7 – Creating a new organization

You may now log in to the registry by clicking on *Login* (top right), entering your e-mail address and password and pressing the *Login* button.

2.6 Manage your account

To modify your personal details, log in to the registry and click on  **My account** on the bottom of the application menu on the left hand side.

Your user profile

Master data

Name
Jane Doe

Email address
jane.doe@example.org

Password

Confirm password

Organization
ACME, Inc. Change affiliation

Registers	Register owner	Control body	Register manager	Submitter
Geodetic Codes & Parameters				<input checked="" type="checkbox"/>

Fig. 8 - My profile screen

If you wish to change your password, enter your new password in the *Password* and *Confirm password* fields before you click *Save*. If you leave both fields empty, your password will remain unchanged.

At the bottom of the user profile page a list of roles with regard to the registers inside the *ISO Geodetic Registry* is displayed. If a role was delegated to you by your organization, this is indicated by a checked box. If your organization has a role in the register but that role was not yet delegated to you, you may request delegation of the role by clicking the button below the role name. When you click the button, the Point of Contact of your organization is informed about your request.

For more details on roles and delegations, please refer also to section 3.3.

3 The Registry in detail

3.1 Registers

The Registry currently consists only of the *ISO Geodetic Register*.

3.2 Item classes

The *ISO Geodetic Register* contains the following item class groups and item classes:

Item class group	Contained item classes
Coordinate Reference Systems	<ul style="list-style-type: none">• Engineering CRS• Geodetic CRS• Projected CRS
Coordinate Systems	<ul style="list-style-type: none">• Cartesian Coordinate System• Ellipsoidal Coordinate System• Spherical Coordinate System• Vertical Coordinate System
Datums	<ul style="list-style-type: none">• Engineering Datum• Geodetic Datum• Vertical Datum
Coordinate Operations	<ul style="list-style-type: none">• Concatenated Operation• Conversion• Transformation
Other	<ul style="list-style-type: none">• Coordinate System Axis• Ellipsoid• Operation Method• Operation Parameter• Prime Meridian• Unit of Measurement

Tab. 3 - Item class groups & item classes

3.3 Roles

The *ISO Geodetic Registry* defines the following roles:

Role	Definition
Submitting organization	Organization authorized by a register owner to propose changes to the content of a register [1]
Control Body	Group of technical experts that makes decisions regarding the content of a register [1]
Register Manager	User/organization to which management of a register

	has been delegated by the register owner [1]
Register Owner	User/organization that establishes a register [1]
Point of Contact	The Point of Contact is an organization-related role and gives a user the right to delegate the roles held by his organization to other users of his organization.
Administrator	Administrators have the right to manage registers, organizations and registry users. An administrator assigns register roles to organizations. The administrator role is global and not connected to a specific register or organization.

Tab. 4 - Roles in the registry

Roles are assigned to organizations only but may be delegated to affiliated users by the organization's Point of Contact user. Users who were delegated a role may subsequently act on the organization's behalf.

4 Submitting proposals

The content of the registry is complemented and updated by the submission of proposals by submitting organizations. There are four types of proposals that may be submitted to a register [1]:

Type	Description
Addition	Addition is the insertion into a register of an item that describes a concept not described by an item already in the register.
Clarification	Clarifications correct errors in spelling, punctuation, or grammar. A clarification shall not cause any substantive semantic or technical change to a registered item.
Retirement	Submitting organizations may submit requests for retirement of registered items that are no longer useful for producing data. Retirement is accomplished by leaving the item in the register, marking it retired, and including the date on which it was retired.
Supersession	Modification of a registered item that results in substantive semantic or technical change. A supersession is accomplished by including a new item in the register with a new identifier and the date on which it superseded the original item. The original item remains in the register but includes the date at which it was superseded and a reference to the item that superseded it.

Tab. 5 - Proposal types

4.1 Prerequisites

To submit new content to or to update existing in the *ISO Geodetic Registry*, the following preconditions must be fulfilled:

1. You have created a user account (in the process you have either joined an existing organization or created a new one) and are logged in,
2. your organization was assigned the *Submitter* role by the registry administrator, and
3. the right to act as a *Submitter* was delegated to you by the Point of Contact of your organization (if you created the organization, you automatically become your organization's Point of Contact).

If these preconditions are fulfilled, you will see additional action buttons when browsing the registry content.

4.2 Submitting new content

To create an addition proposal, browse to the register content by clicking on the register name or on one of the contained item classes in the application menu and subsequently press on the [Propose new](#) button displayed above the register content.

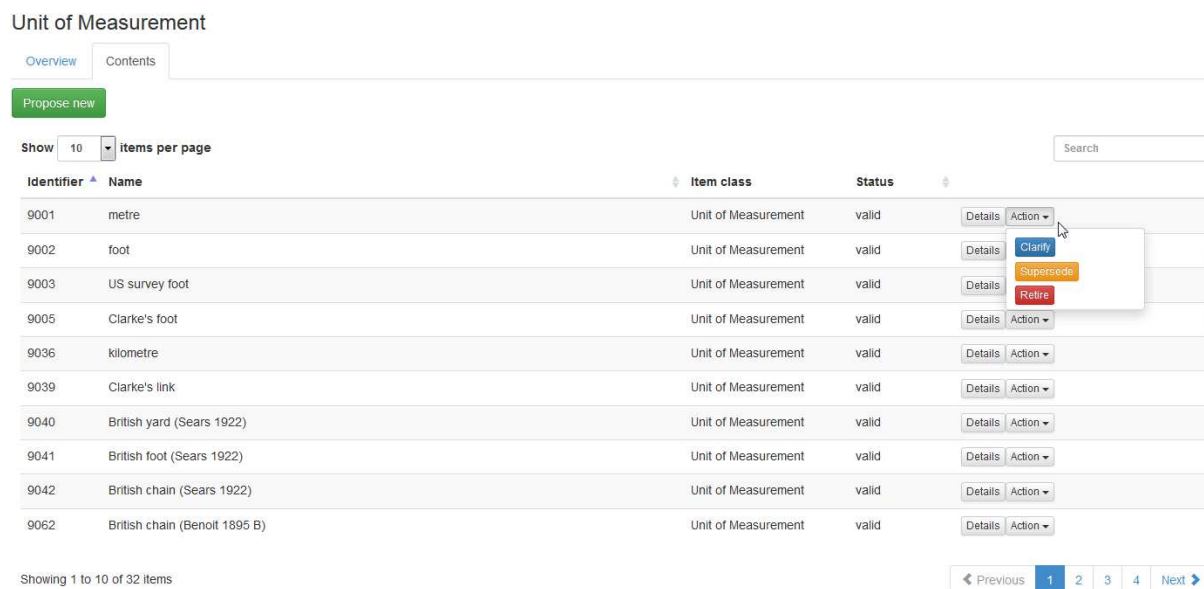



Fig. 9 - Browsing registry content as a submitter

If the list of register item contains only items of a single item class, clicking [Propose new](#) will lead you directly to a proposal form for this item class. Otherwise you must select the item class of your proposal in the following screen.

Mandatory fields of the proposal are marked with the  icon. If you omit to fill out a mandatory field, an error message will be displayed and the omitted fields are highlighted in red once you try to save or submit the proposal. Please note that the omitted field need not necessarily be in the current tab or accordion pane. If you are unsure why an error message is displayed, make sure to check all tabs and accordion panes for omitted mandatory fields.

Action	Description
Save proposal	The proposal is saved for later submission (cf. 5.1.3) with the status <i>not yet submitted</i> . You may edit the proposal or start a discussion (cf. 5.1.1).
Submit proposal	The proposal is submitted to the registry to be reviewed by the register manager.

Tab. 6 - Save proposal vs. submit proposal

Unit of Measure

Name

Identifier

Measure type

Definition

Remarks

Aliases

Standard Target UoM order by: [id] [name]

Nominator (factor B)

Denominator (factor C)

Information Source

Data Source

Fig. 10 - Addition of a Unit of Measurement, item details

Proposal details

Justification

Notes for register manager

Notes for control body

Fig. 11 - Proposal details

In addition to the item details, every proposal requires additional management information. The following attributes in the Proposal details section are part of every proposal [1]:

Attribute	Description
Justification	Explain why the proposed change should be implemented in the registry. Providing a justification is mandatory for every proposal.
Register manager notes	Here you may add notes relevant for the register manager's handling of the proposal. Individual entries within the notes should be dated.
Control body notes	Here you may add notes relevant for the control body's decision concerning the proposal. Individual entries within the notes should be dated.

Tab. 7 - Proposal details

In case there are mandatory attributes not filled out when you click Save proposal or Submit proposal, the following message will appear at the bottom of the screen:

The action cannot be completed due to erroneous or missing form data. Please check all input fields.

Fig. 12 - Error message on omitted mandatory field

4.3 Clarifying an item

To clarify an item, press **Clarify** in the *Action* dropdown of the item to be clarified. You will be presented with a screen similar to the one described in the previous exception. All attributes will be filled with data from the item to be clarified and you can edit the attributes that require clarification. You cannot, however, edit the identifier of an item or change links to other register item, as this does not qualify as a non-semantic change. If you wish you change these attributes, you will have to perform a *Supersession* instead.

4.4 Superseding an item

To supersede an item, press **Supersede** in the *Action* dropdown of the item to be superseded. This will open a screen where you can add a new item (or multiple) new items that are to supersede the original item:

Successors Additional data Overview

Create new successor

Show 10 items per page Search

Name	Definition	Description
No items found		

No items

Previous Next

Continue

Fig. 13 - Adding successor items in a supersession

When you finished adding successors, click *Continue* to proceed to the next screen. In the *Additional data* tab you will have to provide proposal details as described in Tab. 7.

4.5 Invalidating an item

To invalidate an item, press **Invalidate** in the *Action* dropdown of the item to be invalidated. This will open a popup where you will have to provide proposal details as described in Tab. 7.

4.6 Retiring an item

To retire an item, press **Retire** in the *Action* dropdown of the item to be retired. This will open a popup where you will have to provide proposal details as described in Tab. 7.

5 Managing proposals

5.1 Tasks as a submitter

If you are a *Submitter* for your organization you will have access to the submitting organization overview page by clicking on *Submitting organization* in the *Management* folder of the application menu:

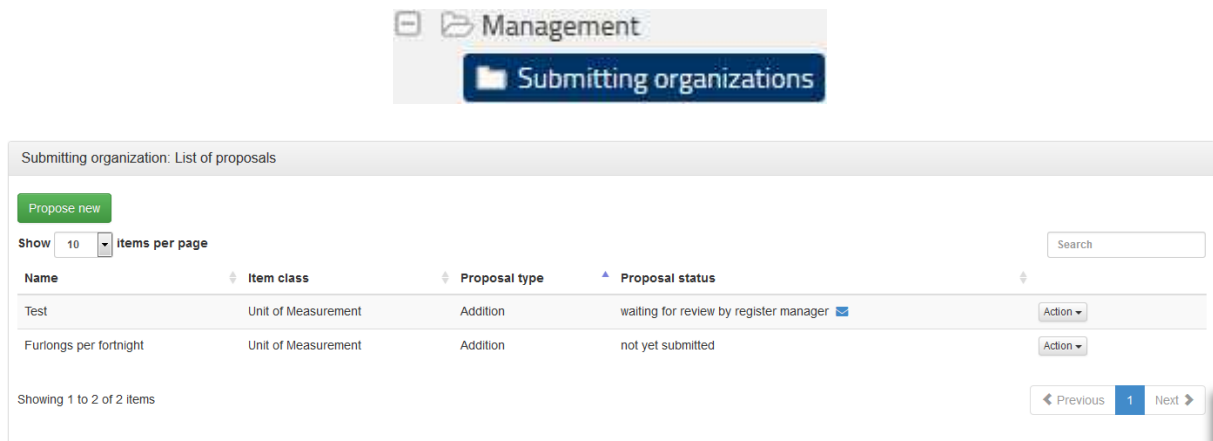


Fig. 14 - Submitting organization overview

5.1.1 Discussing a proposal

Starting a discussion

For proposals having the status *not yet submitted* you may start a discussion by clicking **Discussion** in the action menu next to the proposal. This will lead to a screen allowing you to invite participants to the discussion.

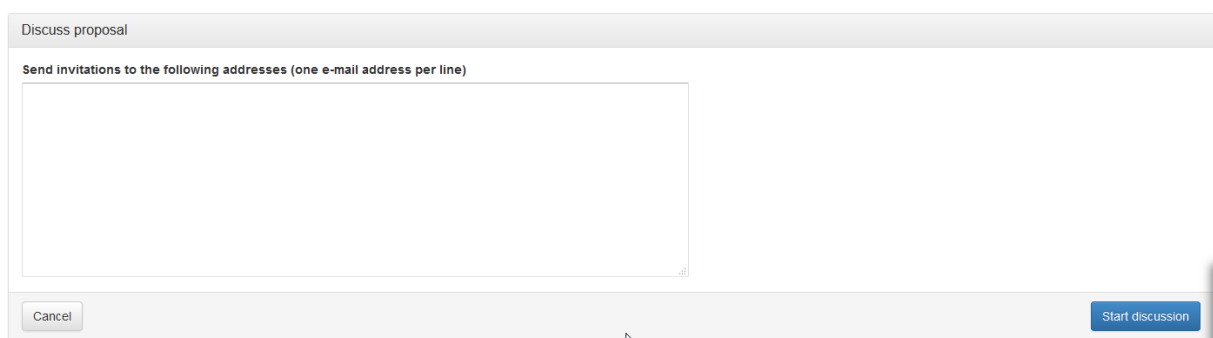


Fig. 15 - Starting a proposal discussion

To invite participants, enter their e-mail addresses in the text field. When you are finished, click *Start discussion*. The registry will then send e-mails to the addresses containing a link to the discussion, allowing the recipients to take part in the discussion.

Starting a thread

The screenshot shows a web interface for a proposal discussion forum. At the top, there is a header "Discuss proposal" and a green "New message" button. Below this, there are three input fields: "Proposal type" with the value "Addition", "Item name" with the value "Furlongs per fortnight", and "Proposal status" with the value "not yet submitted". To the right of these fields is a blue "Proposal Details" button and a search bar. Below the input fields, there is a "Show 10 items per page" dropdown menu. The main content area is a table with columns "Date", "From", "Subject", and "Reply". The table contains two rows: the first row has a date of "29.10.2014 02:51", from "john.doe@example.org", subject "Definition", and a blue "Reply" button; the second row has a date of "29.10.2014 02:55", from "jane.doe@example.org", subject "Re: Definition", and a blue "Reply" button. Below the table, it says "Showing 1 to 2 of 2 items" and navigation buttons for "Previous", "1", and "Next". Below the table, there is a detailed view of a message with fields for "From" (john.doe@example.org), "Subject" (Definition), and "Message" (How much is one furlong per fortnight in meters per second?).

Fig. 16 - Proposal discussion forum

The proposal discussion forum gives an overview of existing threads. To view a message, click on it. The message content will be displayed in the bottom section of the screen.

If there are replies to a message, a small triangle is displayed on the left side of the message entry. You can click the triangle to open the message thread.

You may start new threads by clicking [New message](#) or reply to a message by clicking [Reply](#).

The screenshot shows a "New message" form. It has a title "New message" and a horizontal line below it. The form contains three fields: "From" with the value "john.doe@example.org", "Subject" with an empty text box, and "Message" with a large empty text area. At the bottom of the form, there are two buttons: "Cancel" and "Send".

Fig. 17 - Creating a forum message

5.1.2 Withdrawing a proposal

You may withdraw a proposal at any time by pressing the *Withdraw* button for the respective proposal on the submitting organization overview page.

5.1.3 Submitting saved proposals

To submit a saved proposal with the status *not yet submitted*, click on the *Submit proposal* button in the action dropdown.

5.1.4 Appealing the control body decision

A submitting organization may appeal the rejection of the proposal by the control body to the register owner by clicking *Appeal to owner* on the rejected proposal. Appealable proposals have the status *rejected/appealable*.

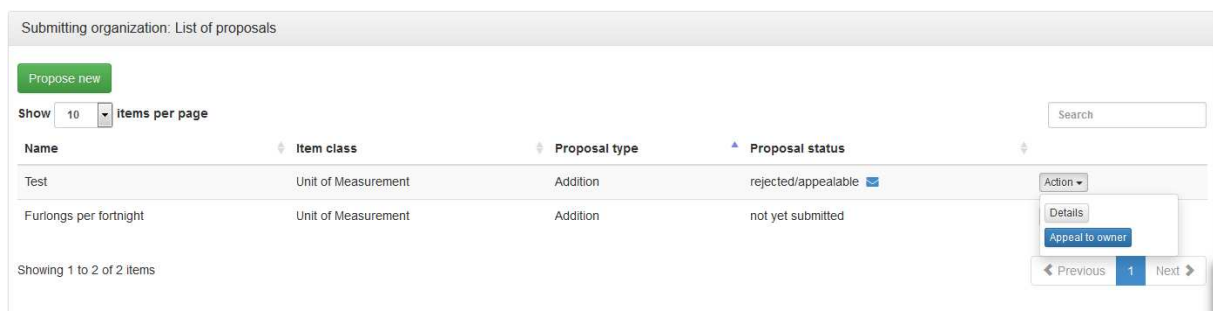


Fig. 18 - Appealing a rejected proposal

When you appeal a rejected proposal, it is required that you provide additional information that may be used by the register owner to decide the appeal in the following screen.

Current situation

Please describe the current situation

Bitte füllen Sie dieses Feld aus.

Appeal justification

Please provide a justification for the appeal

Impact when appeal is rejected

Please describe the impact when the appeal is rejected

Appeal to owner Cancel

Fig. 19 - Providing appeal details

Attribute	Description
Current situation	Describe the current situation (status quo), i. e. the situation before the rejected proposal was created.
Appeal justification	Provide a justification why you think that the control body's decision should be overruled.
Impact when appeal is rejected	Describe the impact when the control body's decision is not overruled.

Tab. 8 - Appeal information

5.2 Tasks as a register manager

After a new proposal has been submitted, it is the register manager's responsibility to review the proposal for completeness. The register manager returns the proposal to the submitter if the proposal is incomplete or he deems the submitting organization not qualified to make the proposal in question.

To view a list of proposals that are waiting for review, click on *Register manager* under the *Management* folder in the application menu.

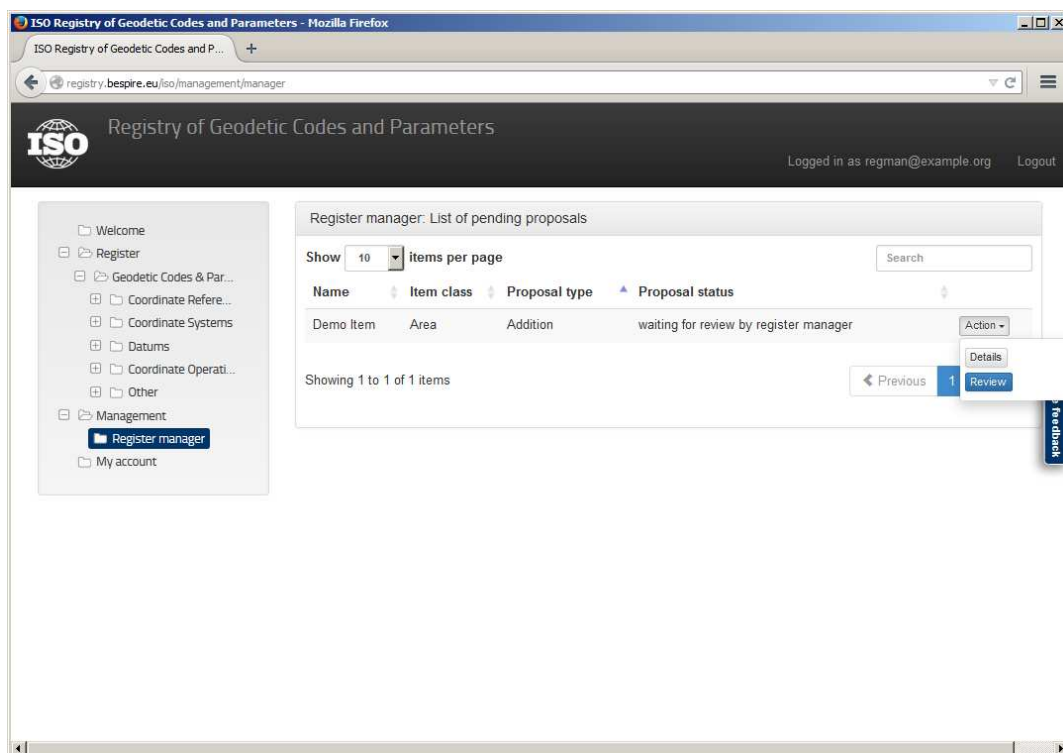


Fig. 20 - Register manager overview

To perform a review of a proposal, press the *Review* button. You may then accept the proposal and hand it over to the control body for decision or return the proposal to the submitter for revision.

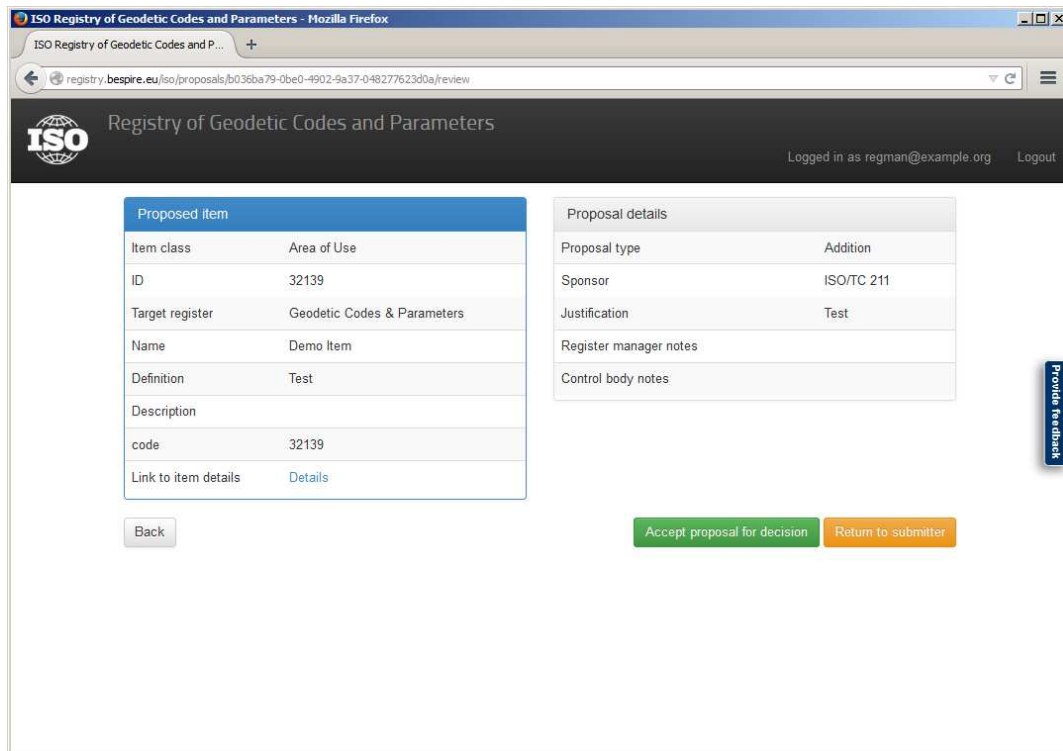


Fig. 21 - Reviewing a proposal as register manager

5.3 Tasks as a control body member

If a proposal was accepted for decision by the register manager, the control body of the register must perform a thorough review of the proposal content. The control body then decides whether to accept the proposed register item into the register, to reject the proposal or to return the proposal to the submitter for revision.

If you were delegated the *Control Body* role by your organization you may review all proposals that are waiting for a decision by visiting the control body overview page (management area).

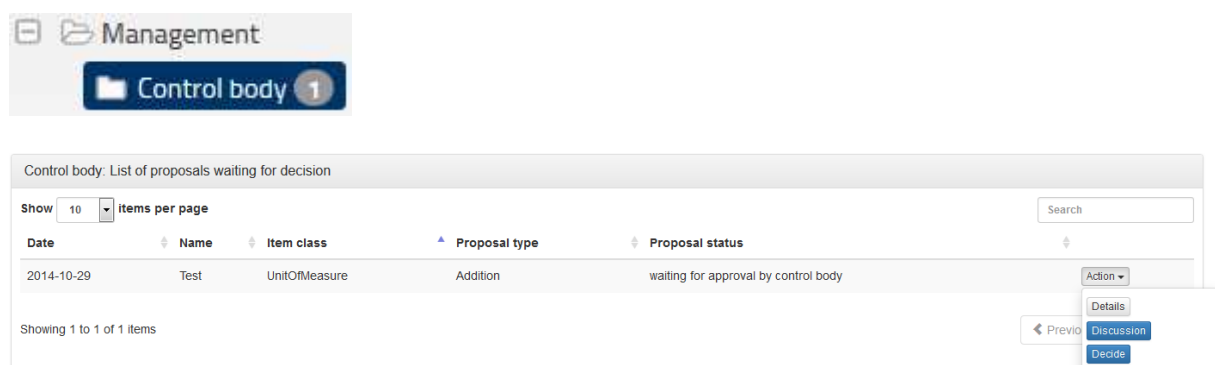


Fig. 22 – Control Body overview

5.4 Discussing a proposal

Although the registry software allows any user having the *Control Body* role to decide a proposal, it may be required to involve all members of the control body in the decision.

Therefore, the registry software includes a discussion forum where the proposal decision may be discussed. Refer to section 5.1.1 for a detailed description of the discussion forum. As part of the discussion, the control body should decide which member will execute the proposal decision once it is made.

5.5 Deciding a proposal

To decide a proposal, one member of the control body must execute the control body’s decision within the registry software. To do so, open the *Action* dropdown of the proposal in question and click on **Decide** to open the control body review page.

The following decisions are available:

Action	Description
Accept proposal	The proposal is accepted. You will be prompted to provide information, where and when the decision to accept the proposal was made by the control body. You should add the date and venue of the control body meeting in the course of which the proposal was decided upon.
Return to submitter	The proposal will be returned to the submitter and receive the status <i>not yet submitted</i> . You will be prompted to add a note to the submitter indicating why the proposal is returned.
Reject proposal	The proposal is rejected. You will be prompted to provide information, where and when the decision to reject the proposal was made by the control body. The submitting organization may appeal to the register owner in this case.

Tab. 9 - Available proposal decisions

The screenshot displays the 'Reviewing a proposal as control body' interface. On the left, a table titled 'Proposed item' lists details: Item class (Unit of Measurement), ID (32140), Target register (Geodetic Codes & Parameters), Name (Test), Definition (Test), and Description. Below this table is a 'Back' button. On the right, a 'Proposal details' table shows: Proposal type (Addition), Sponsor (ISO/TC 211), Justification (Test), Register manager notes, and Control body notes. At the bottom right, there are three action buttons: 'Accept proposal' (green), 'Return to submitter' (orange), and 'Reject proposal' (red).

Fig. 23 - Reviewing a proposal as control body

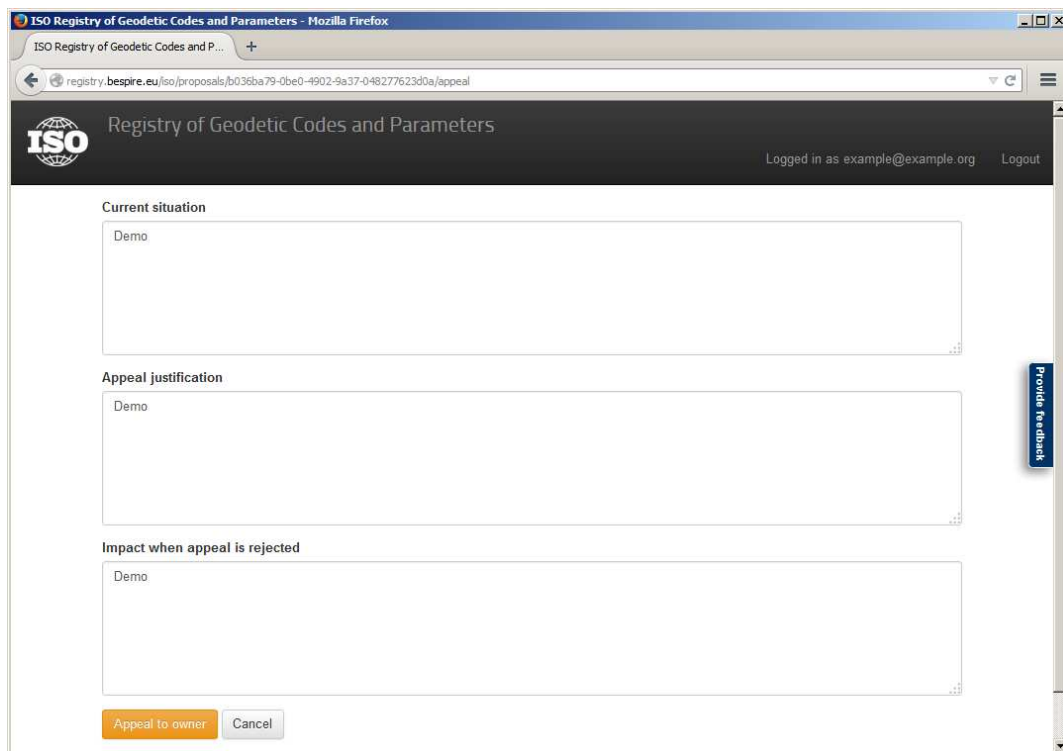


Fig. 24 - Preparing an appeal

6 Managing your organization

6.1 Tasks as an organization's Point of Contact

Users having the role *Point of Contact* have the right to delegate all roles assigned to their organization to users affiliated with the organization. Additionally, a Point of Contact is responsible for confirming the membership of new users and for delegating the *Point of Contact* role to other users of the organization.

If you are the Point of Contact for your organization, you will have access to the Point of Contact overview page. The link to the overview page can be found in the *Management* folder of the application menu.

Edit organization

Master data

Name

Roles

Registers	Register owner	Control body	Register manager	Submitter
Geodetic Codes & Parameters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Users

John Doe	Permissions
Jane Doe	Permissions

[Save](#) [Cancel](#)

Fig. 25 - Point of Contact overview

6.2 Delegating rights to organization user

To delegate a role to a user of your organization, click [Permissions](#) next to the user's name. This will open a popup displaying the roles available for delegation.

Delegated rights

Membership approved	<input checked="" type="checkbox"/>
Point of Contact	<input type="checkbox"/>

Registers	Register owner	Control body	Register manager	Submitter
Geodetic Codes & Parameters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

[Ok](#)

Fig. 26 - Delegating roles to users

Check the appropriate roles and press *Ok*. Your changes in the popup will not be saved until you click *Save* in the main dialog.

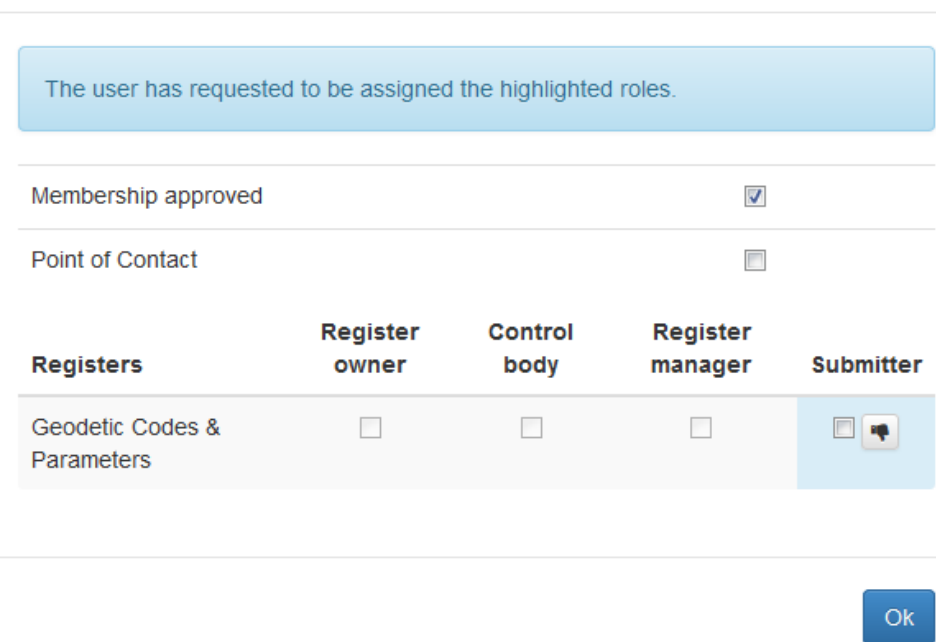
6.3 Managing role requests

Users of your organization may request the delegation of roles, as described in section 2.6. If a user has requested the delegation of one or more roles, the number of requested roles will appear next to the user's name like this:




When you open the permissions popup for that user, the requested roles will be highlighted.

Delegated rights



The user has requested to be assigned the highlighted roles.


Membership approved	<input checked="" type="checkbox"/>
Point of Contact	<input type="checkbox"/>

Registers	Register owner	Control body	Register manager	Submitter
Geodetic Codes & Parameters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 

Ok

Fig. 27 - Managing role requests

You can accept the request by checking the respective check box, closing the popup by clicking *Ok*, and saving the main dialog by clicking *Save*.

In case you wish to deny the request, press the  button. Note that denying a role request will be saved immediately. The requesting user may, however, again request the delegation of the same role at a later time.

7 Bibliography

[1] ISO, *ISO 19135 - Procedures for item registration*, 2005.

8 List of figures

Fig. 1 - Item classes within an item class group	2
Fig. 2 - List of registered items	3
Fig. 3 - Details of a registered item	4
Fig. 4 - Management information of a register item	5
Fig. 5 - The Login dropdown	6
Fig. 6 - The sign-up form	6
Fig. 7 - Creating a new organization	7
Fig. 8 - My profile screen	8
Fig. 9 - Browsing registry content as a submitter	12
Fig. 10 - Addition of a Unit of Measurement, item details	13
Fig. 11 - Proposal details	13
Fig. 12 - Error message on omitted mandatory field	14
Fig. 13 - Adding successor items in a supersession	15
Fig. 14 - Submitting organization overview	16
Fig. 15 - Starting a proposal discussion	16
Fig. 16 - Proposal discussion forum	17
Fig. 17 - Creating a forum message	17
Fig. 18 - Appealing a rejected proposal	18
Fig. 19 - Providing appeal details	18
Fig. 20 - Register manager overview	19
Fig. 21 - Reviewing a proposal as register manager	20
Fig. 22 - Control Body overview	20
Fig. 23 - Reviewing a proposal as control body	21
Fig. 24 - Preparing an appeal	22
Fig. 25 - Point of Contact overview	23
Fig. 26 - Delegating roles to users	23
Fig. 27 - Managing role requests	24

9 List of tables

Tab. 1 - Proposal management information.....5
Tab. 2 - Signup form fields.....7
Tab. 3 - Item class groups & item classes9
Tab. 4 - Roles in the registry10
Tab. 5 - Proposal types11
Tab. 6 - Save proposal vs. submit proposal 12
Tab. 7 - Proposal details 14
Tab. 8 - Appeal information19
Tab. 9 - Available proposal decisions..... 21