ADMIN GUIDE

KeyLight 2024.1

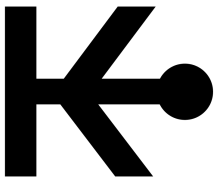


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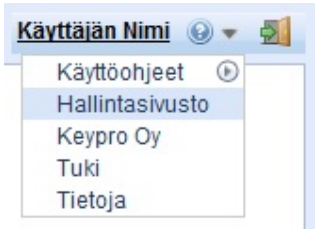
Introduction

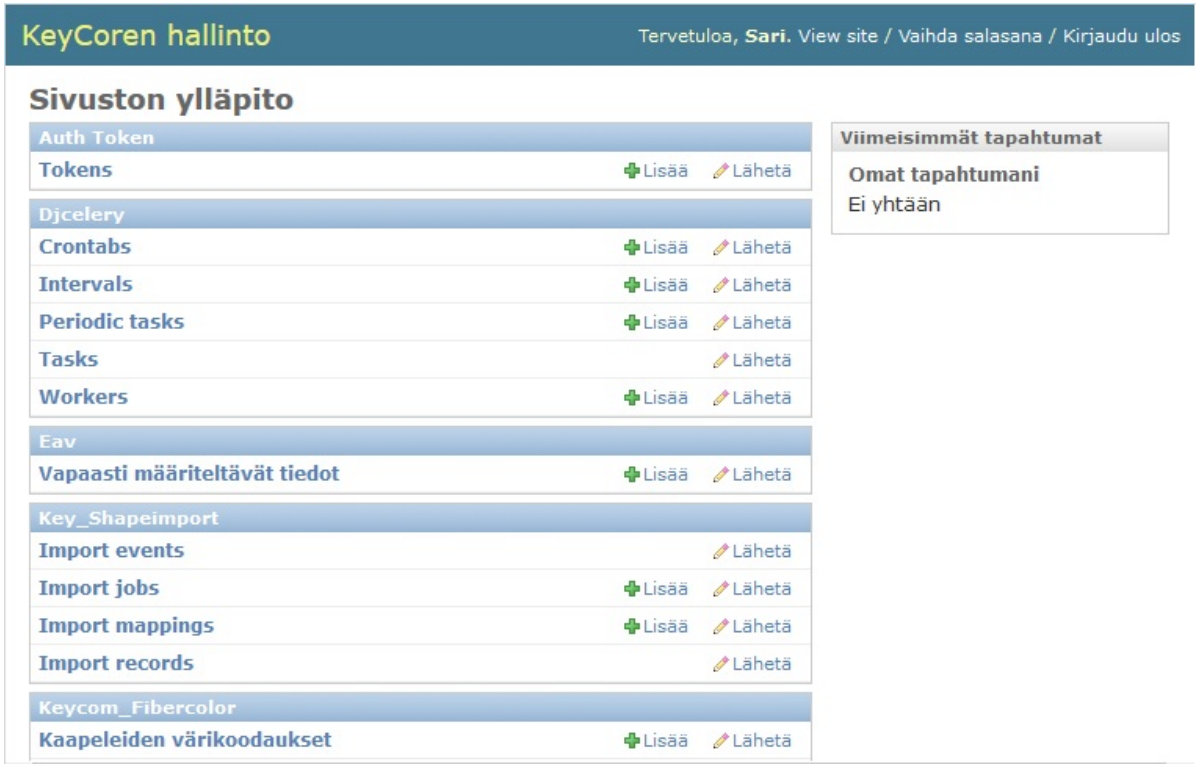
This document describes the **KeyLight** application settings that can be configured on the Admin site. In addition, the document describes some typical administration tasks related to the KeyLight application.

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Admin user interface

If you have been granted sufficient access rights, you can access the KeyLight admin user interface by clicking **Admin site** in the **Help** menu.





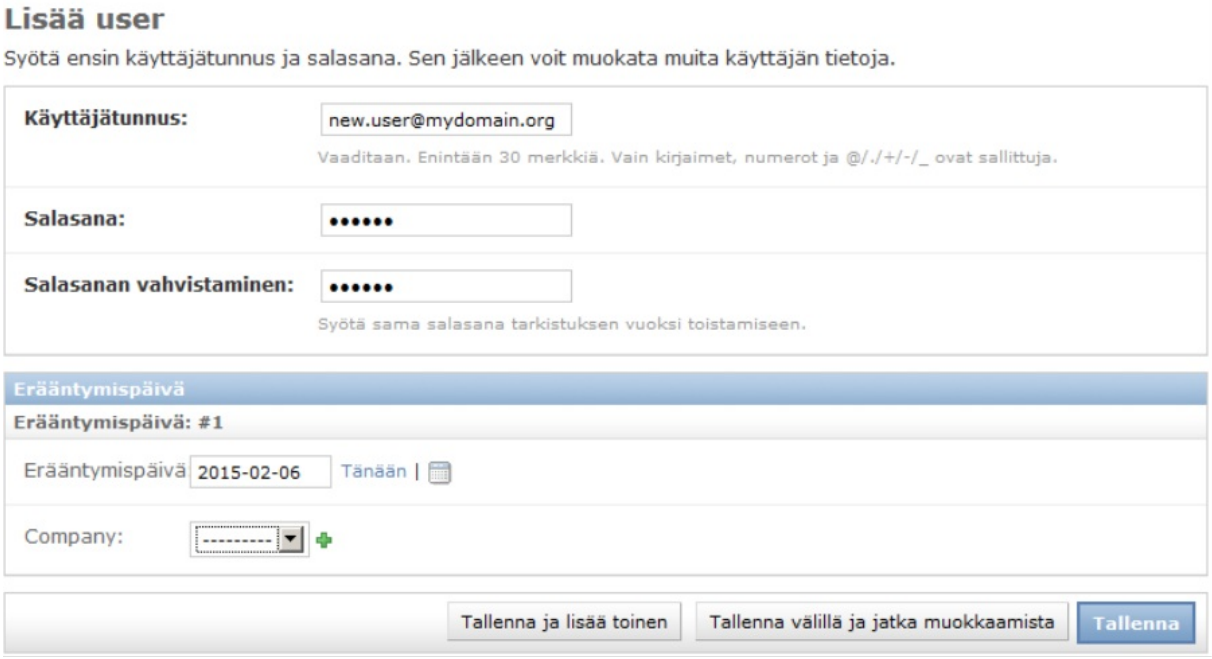
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Managing usernames and user data

Each KeyLight user is identified based on their personal unique username.

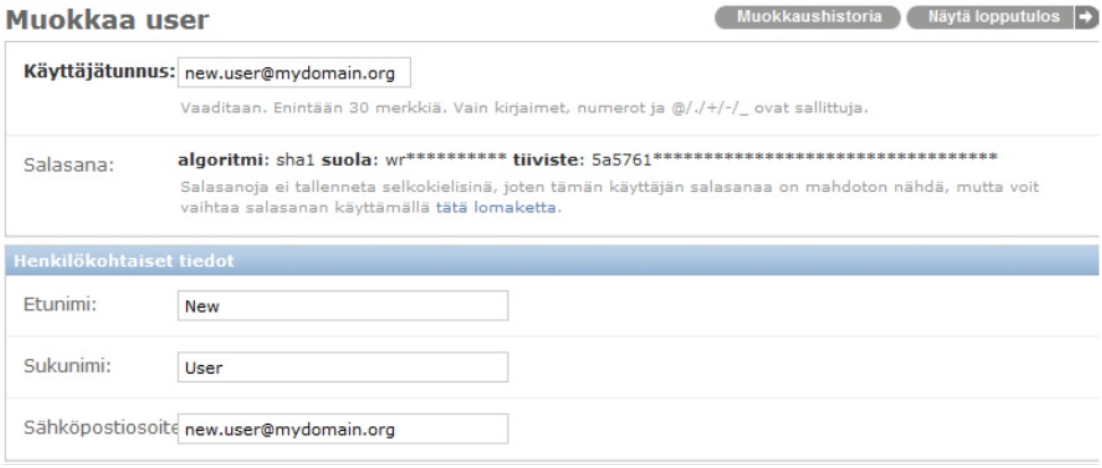
Creating new users

On the Admin site, go to the **Users** row in the **Authentication and authorization** group and click **Add** 



1. Complete the **Username** and **Password** fields.
2. Define an **Expiration date** if you want to limit the validity of the username.
3. Click **Save**.
4. On the displayed form, enter the **first** and **last name** of the user.
5. If the user is authorised to export objects to external file formats such as AutoCAD, enter an **Email address**.

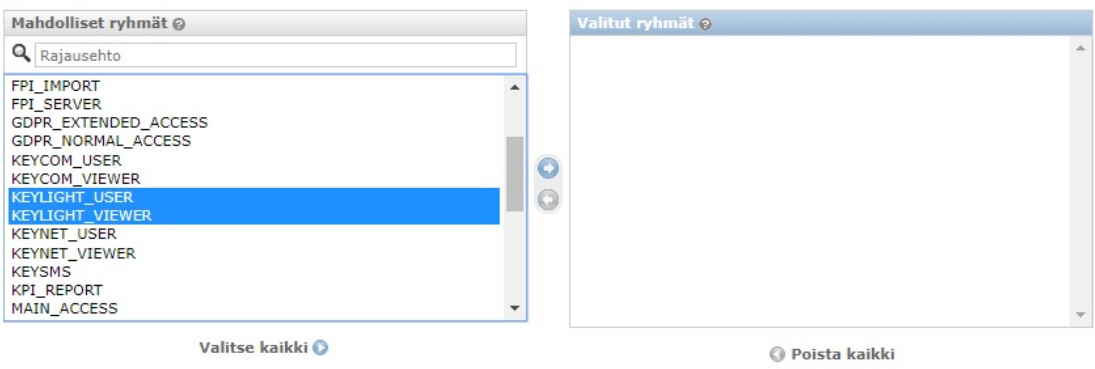
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6. Configure the access rights for the user as instructed in the Configuring and modifying access rights for usernames chapter starting from step 2.

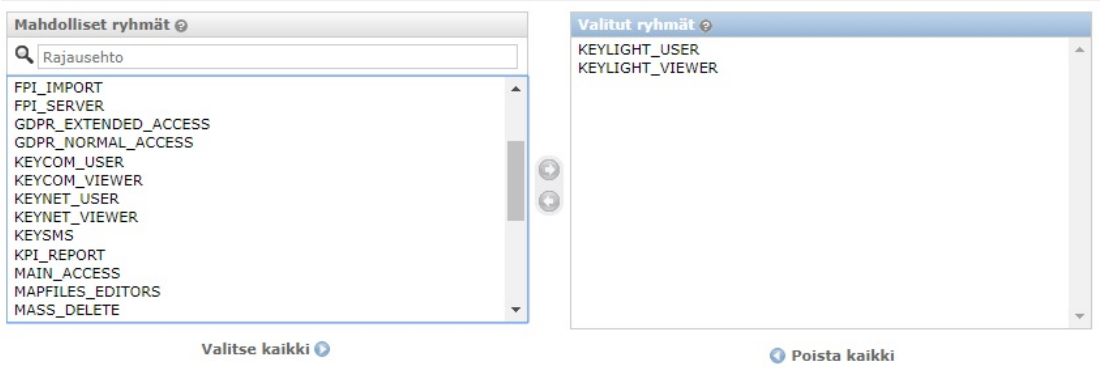
Configuring and modifying access rights for usernames

1. Select a user ID from the **Authentication and Authorizations > Users** list.
2. On the **Available groups** list, select the user groups to which the user belongs.



3. Click the arrow button displayed between the lists to add groups to the **Chosen groups** list.

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4. You can configure user-specific permissions in a similar manner.
5. **Save** changes.

User groups available in KeyLight

The following user groups have been configured as default groups in KeyLight:

- KEYLIGHT_USER is a user authorized to add, modify, and delete KeyLight objects.
- KEYLIGHT_VIEWER is a user authorized to view KeyLight objects.
- KEYSMS is a user authorized to send text messages.
- MAIN_ACCESS is a user authorized to use the main application only. KEYCORE_IGNORE_MAIN_VIEW_ACCESS_GROUPS must not be in an active state in the application.
- VIEWER_ACCESS is a user only authorised to use KeyMobile. KEYCORE_IGNORE_MAIN_VIEW_ACCESS_GROUPS must not be in an active state in the application.
- GDPR_NORMAL_ACCESS is a user authorized to view customer data.
- GDPR_EXTENDED_ACCESS is a user who may view, in addition to normal customer information, restricted customer data (KeyLight does not contain customer data that is restricted from normal customer data).
- DATA_EXPORT_USERS is a user authorized to export data to another data format by using the export function.
- REFERENCE_MAP_USER is a user authorized to import files to the map by using the spatial upload function.
- MASS_DELETE is a user authorized to delete several objects at once. The mass deletion function of the application must be activated for this.
- POWER_USERS is a group that will be removed. Use the KEYLIGHT_USER group instead.
- READONLY_USERS_PLUS_AREA is a user with viewing rights and the

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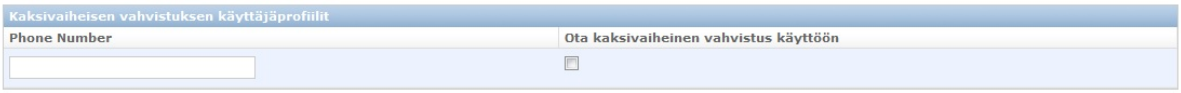
right to create areas.

- ACCOUNTING is a user authorized to access the login data of users.

Configuring two-factor authentication for a user (optional)

If two-factor authentication has been ordered as an additional service, the view for editing user data includes a section for **User profiles for two-factor authentication** (Figure 7).

1. Select a user ID from the **Authentication and Authorizations > Users** list.
2. Enter the phone number of the user to which the confirmation code will be sent.
3. Select **Enable two phased authentication**.
4. Save changes.

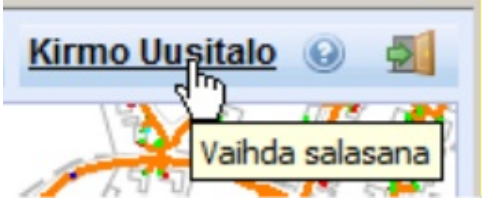


Deleting usernames

To delete an existing user ID, select the username on the **Authentication and Authorizations** > **Users** list and click **Delete** on the form that appears.

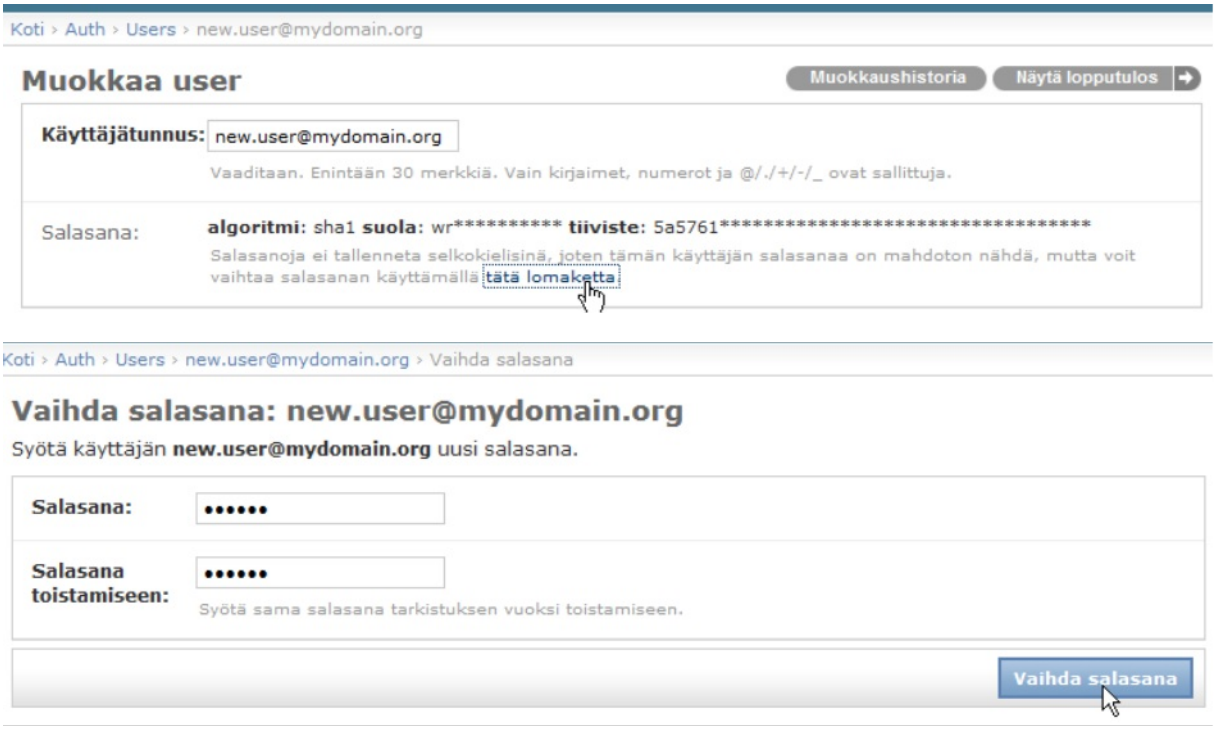
Changing user passwords

Users can change their own passwords through the link in the application's main view. Admins can change the passwords of any user on the **Change user** form by clicking the **this form** link.



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For security reasons, passwords are stored in the system database with strong encryption, and not even admin users can view the passwords of users through the admin interface.



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Text constants

The various picklists of the application forms are retrieved from the text constants. If the content of the text constants is edited, the picklists on the forms will be changed accordingly the next time the application is downloaded.

Click the **Text constants** link in the admin interface.



Editing text constants

Note! To manage groups, use their own administration pages as the primary tool, if one exists. The common management page for text constants is mostly intended for editing translations. Modify other values only if you are sure what impact they will have on the operation of the system.

Click the **Text constants** link in the admin interface.

On the displayed list, click the ID of a text constant to edit it. To limit the list content to a single group, click the group in question on the Filter list.



Text constant columns

Text constants include the following information for each setting:

- Group name: text constants have been divided into groups, which are used to categorise the settings related to various topics.
- Logical text: The default text that the application uses internally. Cannot be directly changed except on the group's own management page, if

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one exists.

- Text [fi]...Text [en]: The translations of the **Text** field that are displayed in the browser depending on the selected language. If the selected language is not supported, the **Text** field will be displayed.
- Numeric value**:** Used, for example, as the numeric value equivalent to the text value, to provide information on whether the object is included in the kaivulupa.fi service, whether the feature is in use and to indicate the type of technology. Further information is available in the chapters that discuss each specific group.
- Logical abbreviation: **the default abbreviation of the text constant used internally.**
- **Abbreviation [fi]...Abbreviation [en]:** the translations of the **Abbreviation** field that are displayed in the browser in the selected language. If the selected language is not supported, the **Abbreviation** field will be displayed.
- Numeric value 2...Numeric value 4**:**
- **Numeric value 3:** Is used for existing *_OWNER groups to point directly to STP Owner ID, which will be then used directly in the STP view (Environment/Customer specific STP Owner ID's to be defined manually per environment when STP activation happens). With this, it is important that these fields remain free until then.
- Text value: varies depending on the group. As a general rule, not in use.
- Category: not in use
- Description:
- Value...Value 4**:** Not in use.
- Optional data
- Order no**:** a sequence number for settings. For example, if the values of a group are retrieved for a picklist, the values will be displayed in the order specified by the order number. For some groups, values with negative order numbers are not displayed on the picklists.
- Availability start and end:displayed/can be modified through the group's own admin interface if the field is in use. If data has been entered in these fields, selections with availability start or end dates in conflict with the current date (not available anymore or availability period has not yet started) will be displayed either in grey or not at all depending on the group.

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Common text constants

Placement scale

The placement scales available in the map tools are defined in the SCALE group under Text constants.

- Text...Text (en)**:** a scale value that is appropriate for the user, for example, “1:500”
- Numeric value: The numeric value equivalent to the text for object scaling.
- Value: not available in the browser application. A reference to a Feature table. Contact Keypro’s application support for help.
- Value 2: not available in the browser application. A reference to a Feature table. Contact Keypro’s application support for help.
- Numeric value 2: determines the default drawing scale. The default placement scale when the application is launched is a placement scale with a Numeric value 2 = 1.

Location accuracy and height accuracy

Location accuracies are defined in the LOCATION_ACCURACY group, while the H_ACCURACY group is used to define height accuracies. Both are used on some of the object forms in the relevant picklists on the **Common settings** tab.

- Text...Text (en): text specifying the location accuracy, for example, “+-5 m”
- Numeric value**:** a numeric value equivalent to the text field, for example, 5.0. The value in this field is the radius of a circle in meters, within which the actual location of an object is when measured from the object’s saved location and at the applied level of certainty.

Plan state

The state of a plan is specified in the PLAN_STATE group.

- Numeric value 2: If the value is non-zero or NULL, the plan-related objects with the usage state “planned” will be displayed in the kaivulupa.fi service. (Objects with the usage state “in use” are always

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displayed in the kaivulupa.fi service regardless of the plan's state.) This means that it is possible to specify, for example, that objects linked to plans that are in the pre-planning phase or under planning are not displayed in the kaivulupa.fi service. If a planned object is not linked to any plans, it will be displayed in the kaivulupa.fi service.

Plan type

The plan type is specified in the PLAN_TYPE group.

- Numeric value 2: If the value is 2, the user is asked when the plan is completed whether the objects should be marked as scrap or removed from the system. This is intended for use in connection with demolition plans.

Point object types

Specify the types of point objects in the group POINT_TYPE.

- Numeric value: the field specifies whether the object type in question is displayed in the kaivulupa.fi service.

0	not displayed
1	displayed

- Numeric value 2: the field specifies whether the route's installation type is buried or aerial.

NULL/0	Buried
Negative	Shallow depth, estimated depth in metres, for example, -0.2
1	aerial.

Point object type categories

The type categories of point objects are specified in the POINT_TYPE_CATEGORY group.

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- Logical text: the text that the application uses internally
- Text [fi]...Text [en]: the translations of the **Text** field that are displayed in the browser in the selected language.
- Numeric value**:** the type of the category

1	a category used as redline in Keymobile
-1	Types used in KeyRNS. The trigger updates the type_id data field for the object. The type_id field will be removed, but its fields are still used by safe-to-dig.com and the placement scale calculation (An obsolete group of point object types).

Point object defaults

To set the defaults, go to a **Point object** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Address usage purposes

The usage purposes of addresses are specified in the APARTMENT_USAGE group (the usage purpose of an apartment) and the BUILDING_USAGE group (the usage purpose of a building).

- Numeric value...numeric value 4: these fields specify the addresses that will be excluded in various situations, for example, if you do not want to include addresses with the usage state “Demolished”. If no value has been entered or the value entered into the field is 0, the address will be included. Otherwise the address will not be included. Addresses are displayed in accordance with the table below.

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Numeric value	1	Related to external interfaces. **Do not edit!**
Numeric value 2	1	Related to external interfaces. **Do not edit.**
Numeric value 3	1-11	The VRK usage code equivalent to the purpose of use. (Note! Only used in Finland.) This is used when the VRK material is used to update addresses. **Do not edit.**
Numeric value 4	1	Addresses are not updated directly from the VRK file, but the update is included in the list of addresses that will not be updated. (Note! Only used in Finland.)

- Text value

The Text value of the BUILDING_USAGE group specifies the color of the address symbol.

Text value	r g b	Color of the address symbol. Each value is a number between 0...255, for example, green is presented as “0 255 0”.

Address usage purpose 2

The values for the Address usage purpose 2 field are specified in the KN_ADDR_SPEC group.

The text value in the KN_ADDR_SPEC group specifies the color used to display the address number on the map.

Text value	r g b	The color of the address number. Each value is a number between 0...255, for example, green is presented as “0 255 0”.

Address defaults

To set the defaults, go to an Address form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

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Coordinate system options

To configure the Coordinate system options that are displayed to users, go to the KEYCORE_IMPORT_SRS groups under Text constants.

- Text value: the code equivalent to the coordinate system. This code must be included in the code column of the Coordinate systems (see Coordinate systems).

Note! The KEYCORE_IMPORT_SRS group under Text constants determines the options displayed to the users. The equivalent information must be included in the coordinate system configuration (see the Coordinate systems chapter).

Usage state

The names of groups used to specify the usage state of an object end with "_STATE".

- Numeric value: the field value indicates the usage state as explained below.

1	In use
2	Planned
3	Discarded
4	not in use

When specifying new usage states, you should select one of the numeric values above depending on which usage state the new state resembles the most. Groups using this feature include the following:

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CABLE_STATE	Usage state of a cable
CONDUIT_STATE	Usage state of a conduit
DUCT_STATE	Usage state of a duct
MANHOLE_STATE	Usage state of a manhole
POINT_STATE	Usage state of a point object
POLE_STATE	Usage state of a pole
PREM_STATE	Usage state of hardware room
SERVICE_STATE	Usage state of a service
SPLICE_STATE	Usage state of a splice
EL_STREETLIGHT_STATE	Usage state of street light

Cable and duct owners

Cable owners are specified in the CABLE_OWNER group.

Duct owners are specified in the DUCT_OWNER group.

- Numeric value**:** indicates whether the cables (or ducts, if the group is DUCT_OWNER) of that owner are included in the kaivulupa.fi service. This information is a rough equivalent of the obligation to display the cable/duct:

1 or NULL	is displayed on the operator’s safe-to-dig.com cable maps
0	is not displayed on the operator’s safe-to-dig.com cable maps
0.5	is displayed on the operator’s safe-to-dig.com cable maps with the annotation “other operator’s cable”

Area types

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Area types are specified in the FREEAREA_TYPE group.

- Numeric value: defines the area type

1	Access restriction area
2	Province
3	City
4	Zip code
5	Switching center area (Censal)
6	Country border
7	Population center
8	Autonomous area (Comunidad Autónoma)
9	Building
22	Unsubsidised area
101	(reserved for a modified right of use area)

Text-constant links for areas

- Parent id: Area category (see Area categories).
- Child id: Area type (see Area types).

Area categories

Area categories are specified in the FREEAREA_CATEGORY group. The Links of text constants chapter provides information on linking area types to categories.

Usage states of areas

The usage states of areas are defined in the FREEAREA_STATE group.

- Numeric value:

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102	(reserved for a modified right of use area)
103	(reserved for a modified right of use area)
104	(reserved for a modified right of use area)

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KeyLight settings

Installation depth class

The installation depth class of cables and conduits is determined in group INSTALL_DEPTH_CLASS.

- **Text...Text (en)**: Text specifying the installation depth, for example, 0–199 m.
- **Order no.**: the order in which installation depth classes are shown to users on selection lists.

Installation type

The installation method of the streetlight is specified in group SL_INSTALLATION_TYPE.

- **Text...Text (en)**: Text indicating the installation method, e.g. “Column”.
- **Order no.**: the order in which installation methods are shown to users on selection lists.

Configuring duct types

Select **Keylight_Core -> Conduit – Duct – Types**

- Duct type: duct type identifier
- Material: duct material. Specify the available options in the DUCT_MATERIAL group. (Editing text constants).
- Color: Not available in the browser application.
- Outer diameter: the duct’s outer diameter in numerals
- Inner diameter: the duct’s inner diameter in numerals
- Duct shape: the shape of the duct. Configure the available options in the DUCT_FORM group. (Editing text constants).
- Unit price: not in use
- Number of sub-ducts: not in use
- Sub-duct type: not in use

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- Availability starts: the date from which a duct of the specified type will be available for construction purposes
- Availability ends: end date of the availability of a duct of the specified type
- KeyRNS cell: not available in browser applications.
- Order number: Not used for duct types

Duct defaults

To set the defaults, go to a **Conduit** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Duct owners

Select **Keylight_Core** -> **Conduit – Duct – Owners** to specify duct owners.

Duct owners are specified in the text constant group DUCT_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the duct owner with translations.
- **Order no.**: the order in which owners are shown to users on selection lists.

renters of the duct

Select **Keylight_Core** -> **Conduit – Duct – Renters** to specify duct renters.

Duct renters are specified in the text constant group DUCT_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the duct renter with translations.
- **Order no.**: the order in which renters are shown to users on selection lists.

Specifying cable types

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Select **Keylight_Core** -> **Cable types**

- Type: cable type identifier.
- Technical data: The technical details of the cable type.
- Technology: cable technology. Specify the available options in the EL_CABLE_TECHNOLOGY group. (Editing text constants).
- Installation method: how the cable is installed. Specify the available options in the CABLE_TYPE group. (Editing text constants).
- Conductor material: Conductor material. Specify the available options in the EL_CONDUCTOR_MTRL group. (Editing text constants).
- Voltage: Cable voltage
- Temperature: Cable temperature
- Resistance L: Used for short circuit calculation
- Resistance N: Used for short circuit calculation
- Effective reactance L: Used for short circuit calculation
- Effective reactance NL: Used for short circuit calculation
- Effective reactance N: Used for short circuit calculation

Cable defaults

To set the defaults, go to a **Cable** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Cable installation method

Select **Keylight_Core -> Cable – Installation type** to specify the cable installation methods.

Cable installation methods are specified in the text constant group CABLE_TYPE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text indicating the cable installation method, including translations. **Order no.**: the order in which installation methods are shown to users on selection lists.

Cable measurement method

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Select **Keylight_Core -> Cable – Cable measure** to specify the cable measurement methods.

Cable measurement methods are specified in the text constant group CABLE_MEASURE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text indicating the cable measurement method, including translations.
- **Order no.**: the order in which measurement methods are shown to users on selection lists.

Cable technologies

Select **Keylight_Core -> Cable – Types (technology)** to specify cable technologies.

Cable technologies are specified in the text constant group EL_CABLE_TECHNOLOGY, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Cable technology with translations.
- **Numeric value**: Determines whether the type appears in the form's selection list (1 = shown) **Order number**: the order in which technology types are shown to the user on selection lists.

Cable contractors

Select **Keylight_Core -> Cable – Contractors** to specify cable contractors.

Cable contractors are specified in the text constant group EL_CABLE_CONTRACTOR, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the cable contractor with translations.
- **Order no.**: the order in which contractors are shown to users on selection lists

Cable renters

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Select **Keylight_Core -> Cable – Renter** to specify the cable renters.

Cable renters are specified in the text constant group CABLE_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the cable renter with translations.
- **Order no.**: the order in which renters are shown to users on selection lists

Specifying the types of hardware rooms

Select **Keylight_Core -> Premises** – **Types**

- Premises – Manufacturer: Premises manufacturer
- Product code: Premises product code
- Cost: Premises cost as a figure
- Type: Premises type name
- Premises – Type: Premises type. Specify the options in the EL_PREM_TYPE group for text constants (Editing text constants).
- Network type: Premises network type. Specify the options in the NET_TYPE group for text constants (Editing text constants).
- **Tip:** Ask Keypro support for help to change the telecom premises description technology.

Premises defaults

To set the defaults, go to a **Premises** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Premises connection

Select **Keylight_Core -> Premises – Connecting wires** to specify the Premises' connection options.

Premises connection options are specified in the text constant group EL_PREM_CONNECTION, which means that they can also be accessed through text constants (Editing text constants).

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- **Text...Text (en)**: Premises connection option with translations.
- **Order no.**: the order in which connection options are shown to users on selection lists.

Premises owners

Select **Keylight_Core -> Premises – Owners** to specify Premises owners.

Premises owners are specified in the text constant group PREM_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises owner with translations.
- **Order no.**: the order in which owners are shown to users on selection lists

Premises coatings

Select **Keylight_Core -> Premises – Coatings** to specify hardware room coatings.

Premises coatings are specified in the text constant group EL_PREM_SURFACE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises coating with translations.
- **Order no.**: the order in which coatings are shown to users on selection lists

Premises main fuse links

Select **Keylight_Core -> Premises – Main fuse links** to specify hardware room main fuses.

Premises main fuse links are specified in the text constant group EL_PREM_FUSE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises main fuse link's text with translations.
- **Order no.**: the order in which main fuse links are shown to users on

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selection lists

Premises grounding

Select **Keylight_Core -> Premises – Grounding** to specify the hardware room's grounding options.

Premises grounding options are specified in the text constant group EL_PREM_GROUND, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises grounding option with translations.
- **Order no.**: the order in which grounding options are shown to users on selection lists

Premises control suppliers

Select **Keylight_Core -> Premises – Control suppliers** to specify the hardware room's control suppliers.

Premises control suppliers are specified in the text constant group EL_PREM_SUPPLIER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises control supplier with translations.
- **Order no.**: the order in which suppliers are shown to users on selection lists

Premises finishing

Select **Keylight_Core -> Keylight Premises finishing** to specify the hardware room's finishing options.

Premises finishing options are specified in the text constant group PREM_FINISHING, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises finishing option with translations.
- **Order no.**: the order in which finishing options are shown to users on selection lists

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Premises control type

Select **Keylight_Core -> Premises – Control types** to specify the hardware room's control types.

Premises control types are specified in the text constant group EL_PREM_GUIDING_TYPE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises control type with translations.
- **Order no.**: the order in which control types are shown to users on selection lists

Premises placement locations

Select **Keylight_Core -> Premises – Placement locations** to specify hardware room placement locations.

Premises placement locations are specified in the text constant group PREM_PLACEMENT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises placement location with translations.
- **Order no.**: the order in which placement locations are shown to users on selection lists

Premises tones

Select **Keylight_Core -> Premises – Tones** to specify hardware room tones.

Premises tones are specified in the text constant group EL_PREM_SHADE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises tone with translations.
- **Order no.**: the order in which tones are shown to users on the selection lists

Premises contractors

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Select **Keylight_Core -> Premises – Contractors** to specify hardware room contractors.

Premises contractors are specified in the text constant group EL_PREM_CONTRACTOR, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Hardware contractor with translations.
- **Order no.**: the order in which contractors are shown to users on selection lists

Premises manufacturers

Select **Keylight_Core -> Premises – Manufacturer** to specify hardware room owners.

Premises manufacturers are specified in the text constant group EL_PREM_MANUFACT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Premises manufacturer with translations.
- **Order no.**: the order in which manufacturers are shown to users on selection lists

Premises group fuse links' switches

Select **Keylight_Core -> Premises – Block fuse – Switches** to specify hardware room group fuse link switches.

The switches of hardware room group fuse links are specified in the text constant group EL_SWITCH, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of a hardware room group fuse link's switch with translations.
- **Order no.**: the order in which switches are shown to users on selection lists

Premises group fuse links' connections

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Select **Keylight_Core -> Premises – Block fuse – Connections** to specify hardware room group fuse connections.

The connections of hardware room group fuse links are specified in the text constant group EL_BUS_CONNECTION, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of a hardware room group fuse link's connection with translations.
- **Order no.**: the order in which connections are shown to users on selection lists

Premises group fuse links' fuse links

Select **Keylight_Core -> Premises – Block fuse – Fuse links** to specify the fuse links of a hardware room's group fuse link.

The fuse links of hardware room group fuse links are specified in the text constant group EL_FUSE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The value of a fuse link in a group fuse link in a hardware room.
- **Numeric value**: The value of a fuse link in a group fuse link in a hardware room.
- **Order no.**: the order in which fuse links are shown to users on selection lists

Premises group fuse links' fuses

Select **Keylight_Core -> Premises – Block fuse – Fuses** to specify the fuses of a hardware room's group fuse link.

The fuse of hardware room group fuse links are specified in the text constant group EL_VFUSE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The value of a fuse in a group fuse link in specific telecom premises.
- **Numeric value**: The value of a fuse in a group fuse link in specific telecom premises.

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- **Order no.**: the order in which fuses are shown to users on selection lists

Conductor materials for hardware room short circuit calculation

Select **Keylight_Core -> Premises – Short circuit calculation – Conductor materials** to specify the conductor materials for hardware room short circuit calculation.

The conductor materials for the short circuit calculation of hardware rooms are specified in the text constant group EL_CONDUCTOR_MTRL, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The conductor material for hardware room short circuit calculation, with translations.
- **Order no.**: the order in which materials are shown to users on selection lists
- **Numeric value 3:** Temperature coefficient of resistance for the conductor material, in the unit 1/microcelsius [$1/10^{-6}$ °C]

Calculation temperatures of hardware room short circuit calculation

Select **Keylight_Core -> Premises – Short circuit calculation – Calculation temperature** to specify the calculation temperatures for hardware room short circuit calculation.

The calculation temperatures for the short circuit calculation of hardware rooms are specified in the text constant group EL_CIRCUIT_CALC_TEMP, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The calculation temperature value of hardware room short circuit calculation.
- **Order no.**: the order in which calculation temperatures are shown to users on selection lists
- **Numeric value:** A calculation temperature with the numeric value 1 is used as the default value for short circuit calculation.
- **Numeric value 2:** The temperature value used for short circuit

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calculation.

Calculation constants of hardware room short circuit calculation

Select **Keylight_Core -> Premises – Short circuit calculation – Calculation constants** to specify the calculation constants for hardware room short circuit calculation.

The calculation constants for the short circuit calculation of hardware rooms are specified in the text constant group EL_CIRCUIT_CONSTANT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: A calculation constant of hardware room short circuit calculation
- **Order no.**: the order in which calculation constants are shown to users on selection lists
- **Numeric value:** A numerical value used for short circuit calculation.

Specifying conduit types

Select **Keylight_Core** -> **Conduit types**

The **Conduit types** admin page is used to manage the CONDUIT_TYPE group under Text constants, and the group can also be accessed through Text constants (Editing text constants).

- **Order no.**: the order in which conduit types are shown to users on selection lists
- Numeric value 2: **RESERVED! Will be used in the future by the kaivulupa.fi service;** the field indicates whether it is a route installed underground or overhead. This information is used in the safe-to-dig.com service to configure whether certain conduit types are displayed on the map provided to diggers.

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NULL/0	Buried
Negative	Shallow depth, estimated depth in metres, for example, -0.2
1	aerial

Conduit defaults

To set the defaults, go to a **Conduit** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Conduit profile status

Select **Keylight_Core** -> **Profile status** to specify the conduit profile statuses.

Conduit profile statuses are specified in the text constant group PROFILE_STATUS, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Conduit profile status text with translations.
- **Order no.**: the order in which profile statuses are shown to users on selection lists

Configuring manhole types

On the **Admin site**, select **Keylight_core** -> **Manhole types**

The **Manhole types** admin page is used to manage the EL_MANHOLE_TYPE group under Text constants, and the group can also be accessed through Text constants (Editing text constants).

- **Order no.**: the order in which manhole types are shown to users on selection lists
- **Numeric value 2**: **RESERVED! Will be used by the Kaivulupa.fi service**; the field specifies the manhole's installation type: buried or aerial (Manholes can in some cases connect Arina-type conduits, which are typically installed overhead). This information is used in the safe-to-dig.com services to configure whether certain manhole types are

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displayed on the map provided to diggers.

NULL/0	Buried
Negative	Shallow depth, estimated depth in metres, for example, -0.2
1	Aerial

Manhole defaults

To set the defaults, go to a **Manhole** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Manhole owners

Select **Keylight_Core** -> **Manhole – Owners** to specify manhole owners.

Manhole owners are specified in the text constant group MANHOLE_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the manhole owner with translations.
- **Order no.**: the order in which owners are shown to users on selection lists

Manhole renters

Select **Keylight_Core** -> **Manhole – Renters** to specify manhole renters.

Manhole renters are specified in the text constant group MANHOLE_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the manhole renter with translations.
- **Order no.**: the order in which renters are shown to users on selection lists

Configuring splice types

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On the **Admin site**, select **Keylight_core** -> **Splice types**

The **Splice types** admin page is used to manage the EL_SPLICE_TYPE group under Text constants, and the group can also be accessed through Text constants (Editing text constants).

- **Order no.**: the order in which types are shown to users on selection lists
- Numeric value: Determines whether the type appears in the form's option list

1	The splice type appears in the form's selection list

- Numeric value 2: **RESERVED! Will be used in the future by the kaivulupa.fi service;** the field indicates whether it is a splice installed underground or overhead. This information is used in the kaivulupa.fi services to specify whether certain splice types are displayed on the map provided to excavators.

NULL/0	Buried
Negative	Shallow depth, estimated depth in metres, for example, -0.2
1	aerial.

Splice defaults

To set the defaults, go to a **Splice** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Splice owners

Select **Keylight_Core** -> **Splice – Owners** to specify splice owners.

Splice owners are specified in the text constant group SPLICE_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the splice owner with translations.
- **Order no.**: the order in which owners are shown to users on selection

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lists

Splice renters

Select **Keylight_Core** -> **Splice – Renters** to specify splice renters.

Splice renters are specified in the text constant group SPLICE_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The renter of the splice with translations.
- **Order no.**: the order in which renters are shown to users on selection lists

Configuring pole types

Select **Keylight_Core** -> **Pole – Types**

- The Pole types admin page is used to manage the EL_POLE_TYPE group under Text constants, and the group can also be accessed through Text constants (Editing text constants).
- Text [fi]...Text [en]: The name of the pole type and its translation shown to the user.
- Abbreviation [fi]...Abbreviation [en]: The abbreviation of the pole type name and its translation shown to the user.
- Numeric value: Determines whether the pole type appears in the form's option list. (1 = shown)
- Numeric value 2...Numeric value 4: not in use
- Text value: not in use
- Category: not in use
- Description: not in use
- Availability starts: not in use
- Availability ends: not in use
- Order no.: the order in which types are shown to users on selection lists

Pole defaults

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To set the defaults, go to a Pole form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Pole materials

Select **Keylight_Core** -> **Pole – Materials** to specify the pole materials.

Pole materials are specified in the text constant group POLE_MATERIAL, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Pole material with translations.
- **Order no.**: the order in which materials are shown to users on selection lists

Pole owners

Select **Keylight_Core** -> **Pole – Owners** to specify pole owners.

Pole owners are specified in the text constant group POLE_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: owner of the pole
- **Order no.**: the order in which owners are shown to users on selection lists

Pole contractors

Select **Keylight_Core -> Pole – Contractors** to specify pole contractors.

Pole contractors are specified in the text constant group POLE_CONTRACTOR, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Pole contractor
- **Order no.**: the order in which contractors are shown to users on selection lists

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Pole renters

Select **Keylight_Core** -> **Pole – Renters** to specify pole renters.

Pole renters are specified in the text constant group POLE_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the pole renter.
- **Order no.**: the order in which renters are shown to users on selection lists

Pole base types

Select **Keylight_Core** -> **Base types** to specify pole base types.

Pole base types are specified in the text constant group EL_BASE_TYPE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The base type text with translations.
- **Order no.**: the order in which types are shown to users on selection lists

Pole base manufacturers

Select **Keylight_Core** -> **Base manufacturers** to specify pole base manufacturers.

Pole base manufacturers are specified in the text constant group EL_BASE_MANUFACT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the base manufacturer with translations.
- **Order no.**: the order in which manufacturers are shown to users on selection lists

Pole base type manufacturers

Select **Keylight_Core** -> **Base type manufacturers** to specify pole base manufacturers.

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- Base manufacturer: Base manufacturer. Specify the available options in the EL_BASE_MANUFACT group. (Editing text constants).
- Base type: Base type. Specify the available options in the EL_BASE_TYPE group. (Editing text constants).

Pole base material

Select **Keylight_Core** -> **Base Materials** to specify the pole base materials.

Base materials are specified in the text constant group EL_BASE_MATERIAL, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The material type text with translations.
- **Order no.**: the order in which materials are shown to users on selection lists

Tower body and base coatings

Select **Keylight_Core -> Pole – Tower body/base – Coatings** to specify the coatings of the tower body/base.

The tower body/base coatings are specified in the text constant group POLE_COATING, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of the coating with its translations.
- **Order no.**: the order in which coatings are shown to users on selection lists

Tower body and base tower bodies

Select **Keylight_Core -> Pole – Tower body/base – Tower bodies** to specify the tower bodies of the tower body/base.

Tower bodies are specified in the text constant group POLE_TRUNK, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of the tower body with its translations.

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- **Order no.**: the order in which tower bodies are shown to users on selection lists

Tower body and base adapters

Select **Keylight_Core -> Pole** – **Tower body/base** – **Fittings** to specify the fittings of the tower body/base.

Tower body fittings are specified in the text constant group EL_POLE_ENG_FIT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of the fitting, e.g., "70/60 mm".
- **Order no.**: the order in which fittings are shown to users on selection lists

Tower body and base tones

Select **Keylight_Core -> Pole** – **Tower body/base** – **Tones** to specify the tones of the tower body/base.

Tower body tones are specified in the text constant group POLE_SHADE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The tone of the tower body or base with its translations.
- **Order no.**: the order in which tones are shown to users on the selection lists

Tower body and base stanchion

Select **Keylight_Core -> Pole** – **Tower body/base** – **Stanchions** to specify the stanchions of the tower body/base.

Tower body stanchions are specified in the text constant group EL_POLE_STANCHION, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Stanchion with its translations.

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- **Order no.**: the order in which stanchions are shown to users on selection lists

Pole safety class

Select **Keylight_Core -> Pole safety class** to specify the safety class of the pole.

Pole safety classes are specified in the text constant group POLE_SAFETY_CLASS, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The safety class text with translations.
- **Order no.**: the order in which safety classes are shown to users on selection lists

Tower body manufacturers

Select **Keylight_Core** -> **Tower body manufacturers** to specify tower body manufacturers.

- Tower body manufacturer: Tower body manufacturer. Specify the available options in the EL_POLE_MANUFACT group. (Editing text constants).
- Tower body: Tower body. Specify the available options in the POLE_TRUNK group. (Editing text constants).

Pole manufacturers

Select **Keylight_Core** -> **Pole manufacturers** to specify pole manufacturers.

Pole manufacturers are specified in the text constant group EL_POLE_MANUFACT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Manufacturer with translations.
- **Order no.**: the order in which manufacturers are shown to users on selection lists

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Health checks – To repair

Select **Keylight_Core -> Health checks – To repair** to specify the To repair options for health checks.

To repair values are specified for health checks in the text constant group TO_BE_FIXED, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: A To repair value with its translations.
- **Order no.**: the order in which the options for health checks are shown to users on selection lists

Health checks – Decay classes

Select **Keylight_Core -> Health checks – Decay classes** to specify the Decay class options for health checks.

Decay class values are specified for health checks in the text constant group EL_POLE_DECAY_CLASS, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of the decay class with its translations.
- **Order no.**: the order in which decay classes are shown to users on selection lists

Other objects – Owners

Select **Keylight_Core -> Other objects – Owners** to specify the owners of other objects.

Owners of other objects are specified in the text constant group OBJECT_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the owner.
- **Order no.**: the order in which owners are shown to users on selection lists

Other objects – Point types

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Select **Keylight_Core -> Other objects – Point types** to specify the point types of other objects.

The point types of other objects are specified in the text constant group EL_POINT_TYPE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Point type name.
- **Order no.**: the order in which point types are shown to users on selection lists
- Numeric value: Determines whether the type appears in the form's option list

1	The point type appears in the form's selection list

Other objects – Renters

Select **Keylight_Core -> Other objects – Renters** to specify the renters of other objects.

Renters of other objects are specified in the text constant group OBJECT_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the renter.
- **Order no.**: the order in which renters are shown to users on selection lists

Streetlight owners

Select **Keylight_Core** -> **Streetlight owners** to specify streetlight owners.

Streetlight owners are specified in the text constant group EL_LIGHT_OWNER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the owner.
- **Order no.**: the order in which owners are shown to users on selection lists

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Streetlight renters

Select **Keylight_Core** -> **Streetlight renters** to specify streetlight renters.

Streetlight renters are specified in the text constant group EL_LIGHT_RENTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The name of the renter.
- **Order no.**: the order in which renters are shown to users on selection lists

Streetlight bases

Select **Keylight_Core** -> **Streetlight – Bases** to specify streetlight bases.

Streetlight bases are specified in the text constant group EL_SL_SOCKET, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Base identifier.
- **Order no.**: the order in which bases are shown to users on selection lists

Streetlight usage classes

Select **Keylight_Core -> Streetlight – Usage classes** to specify streetlight usage classes.

Streetlight usage classes are specified in the text constant group SL_USAGE_CLASS, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: The text of the usage class with its translations.
- **Order no.**: the order in which usage classes are shown to users on selection lists

Streetlight lamp tones

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Select **Keylight_Core -> Streetlight – Lamp tones** to specify streetlight lamp tones.

Streetlight lamp tones are specified in the text constant group LAMP_SHADE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight lamp tone
- **Order no.**: the order in which tones are shown to users on the selection lists

Streetlight lamp powers

Select **Keylight_Core -> Streetlight – Lamp powers** to specify streetlight lamp powers.

Streetlight lamp powers are specified in the text constant group EL_LAMP_POWER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight lamp power
- **Order no.**: the order in which powers are shown to users on the selection lists

Streetlight lamp types

Select **Keylight_Core -> Streetlight – Lamp types** to specify streetlight lamp types.

Streetlight lamp types are specified in the text constant group EL_LAMP_TYPE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight lamp type
- **Order no.**: the order in which types are shown to users on selection lists

Streetlight lamp manufacturers

Select **Keylight_Core -> Streetlight – Lamp manufacturers** to specify streetlight lamp manufacturers.

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Streetlight lamp manufacturers are specified in the text constant group EL_LAMP_MANUFACT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Name of streetlight lamp manufacturer
- **Order no.**: the order in which manufacturers are shown to users on selection lists

Streetlight specifiers

Select **Keylight_Core** -> **Streetlight – Specifiers** to specify streetlight specifiers.

Streetlight specifiers are specified in the text constant group LIGHT_TYPE_SPECIFIER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight specifier
- **Order no.**: the order in which specifiers are shown to users on selection lists

Streetlight phases

Select **Keylight_Core** -> **Streetlight – Phases** to specify streetlight phases.

Streetlight phases are specified in the text constant group EL_SL_PHASE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight phases
- **Order no.**: the order in which phases are shown to users on selection lists

Streetlight powers

Select **Keylight_Core -> Streetlight – Streetlight powers** to specify streetlight powers.

Streetlight powers are specified in the text constant group EL_LIGHT_POWER, which means that they can also be accessed through text constants (Editing text constants).

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- **Text...Text (en)**: Streetlight power
- **Order no.**: the order in which streetlight powers are shown to users on the selection lists

Streetlight manufacturers

Select **Keylight_Core -> Streetlight – Streetlight manufacturers** to specify streetlight manufacturers.

Streetlight manufacturers are specified in the text constant group EL_LIGHT_MANUFACT, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight manufacturer
- **Order no.**: the order in which streetlight manufacturers are shown to users on selection lists

Streetlight models

Select **Keylight_Core -> Streetlight – Streetlight models** to specify streetlight models.

Streetlight models are specified in the text constant group EL_LIGHT_MODEL, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight model
- **Order no.**: the order in which streetlight models are shown to users on the selection lists

Streetlight manufacturer models

Select **Keylight_Core -> Streetlight manufacturer models** to specify streetlight models for manufacturers.

- Manufacturer: Model manufacturer. Specify the available options in the EL_LIGHT_MANUFACT group. (Editing text constants).
- Model: Streetlight model. Specify the available options in the EL_LIGHT_MODEL group. (Editing text constants)

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Streetlight arm materials

Select **Keylight_Core -> Streetlight – Arm – Materials** to specify streetlight arm materials.

Arm materials are specified in the text constant group EL_PURLIN_MATERIAL, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight arm materials
- **Order no.**: the order in which streetlight arm materials are shown to users on the selection lists

Streetlight pole coatings

Select **Keylight_Core -> Streetlight – Arm – Coatings** to specify streetlight arm coatings.

Arm coatings are specified in the text constant group EL_PURLIN_SURFACE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight pole coatings
- **Order no.**: the order in which streetlight arm coatings are shown to users on selection lists

Streetlight arm types

Select **Keylight_Core -> Streetlight – Arm – Arm types** to specify streetlight arm types.

Arm types are specified in the text constant group EL_PURLIN_TYPE, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Streetlight arm type
- **Order no.**: the order in which streetlight arm types are shown to users on the selection lists
- **Numeric value 2:** Affects the appearance of the symbol

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2	The symbol has a direction but no stem
3	The symbol has no direction or stem

Streetlight components — dimmers

Select **Keylight_Core -> Streetlight – Components – Dimmers** to specify streetlight dimmers.

Streetlight dimmers are specified in the text constant group EL_SL_DIMMER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Name of dimmer.
- **Order no.**: the order in which dimmers are shown to users on selection lists

Streetlight components – dimming classes

Select **Keylight_Core -> Streetlight – Components – Dimming class** to specify streetlight dimming classes.

Streetlight dimming classes are specified in the text constant group SL_DIMMING_CLASS_ID, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Dimming class with its translations
- **Order no.**: the order in which dimming classes are shown to users on selection lists

Streetlight components — capacitors

Select **Keylight_Core -> Streetlight – Components – Capacitors** to specify streetlight capacitors.

Streetlight capacitors are specified in the text constant group CONDENSATOR, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Capacitor

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- **Order no.**: the order in which capacitors are shown to users on selection lists

Streetlight components — connection devices

Select **Keylight_Core -> Streetlight – Components – Connection devices** to specify streetlight connection devices.

Streetlight connection devices are specified in the text constant group EL_LIGHT_CONNECTION, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Connection device
- **Order no.**: the order in which connection devices are shown to users on selection lists

Streetlight components – starters

Select **Keylight_Core -> Streetlight – Components – Starters** to specify streetlight starters.

Streetlight starters are specified in the text constant group LIGHTER, which means that they can also be accessed through text constants (Editing text constants).

- **Text...Text (en)**: Starter
- **Order no.**: the order in which starters are shown to users on selection lists

Network tracking colors

Select **Keylight_Core -> Network follower – Colors** to specify the colors used for highlighting device room outputs and their orders.

RGB value	r g b	Color of the address symbol. Each value is a number between 0...255, for example, green is presented as “0 255 0”.

- **Order no.**: the order in which colors are used for output highlighting

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Network follower requests and results

The Network follower requests and results in **Keylight_Core** are intended only for showing information.

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Object defaults

To set the defaults, go to an object form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Defaults support the following fields, the values of which are entered when the defaults are retrieved to the form.

- ${year} – current year
- ${date} – date in the format: 2015-10-16
- ${user} – user name

For example, the following string entered in the **Comments** field and saved as a default:

${year} ${date} ${user}

will result in the following text when defaults are retrieved:

2016 2016-04-11 matti@example.com

These fields can be removed by saving empty fields as defaults. To edit, re-enter text in the fields and save as defaults or edit the defaults of the object in question through the admin site.

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Ignored IP addresses in two phased authentication (optional)

Select **Keycore_auth_sms** -> **Ignored IP addresses in two phased authentication**

- IP address: IP address for which two-factor authentication is not required
- Netmask: an alternative way to specify an IP network the requests originating from which will not require a two-factor authentication.
    - For example, two-factor authentication is not required for logins from the IP addresses 10.121.6.1-10.121.6.255:
        - IP address: 10.121.6.0
        - Netmask: 24

Note! Ignored IP addresses in two-factor authentication is available only if the additional service **Two-factor authentication** has been ordered.

Enabling two-factor authentication for users is described in the Configuring two-factor authentication for a user (optional) chapter.

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External document types

To add, delete and edit external document types, select **Keygwt_Core-> External document types**.

- Type [fi]...Type [en]: external document type and its translation.
- Description: a description of the document type for maintenance purposes.
- Default: if yes, the type is used as a default in KeyMobile.

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Freely configured extra data

Freely defined extra data includes data that can be defined freely for various object types without making changes to the database. The data will be visible to users on the **Extra data** tab on object forms.

Configuring freely configured extra data

Select **Eav** -> **Freely defined extra data**

- Object type: the object type to which the data will be linked. Described in the Extra data selections chapter.
- Name [fi] ... Name [en]: the name of the information element/field and its translation.
- Data type: the data type of the value assigned to the element.
- Order number:

Extra data selections

Select **Keycore_Eav** -> **Extra data selections**

- Extra data model: the target type with which other data is associated. Do not edit.
- Form prefix: the prefix of the form used by the object type. Contact Keypro support for help. Do not edit.
- Activate: whether the specification is active, i.e., whether Other is displayed on the object form

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Maps and coordinate systems

Maps

Select **Keygwt_Core -> Maps.**

- Name: name used internally by the system
- Label: a user-friendly name
- Options: map options, such as:

“scales: [6000000,2500000,1000000,500000,250000,100000,50000,20000,10000,5000,2000,1000,500,250,100,50], maxScale: 6000000, minScale: 50, units:'m', maxExtent:new OpenLayers.Bounds(3000000,6500000,3800000,7800000),projection:"EPSG:2393",mapCenter:new OpenLayers.LonLat(3457632.87,6705378.64),zoom:8”

in which...

    - Scales: available scales. Changing these is not allowed, unless Keypro application support has authorised you to do so.
    - maxScale: maximum scale
    - minScale: minimum scale
    - units: unit of measurement
    - maxExtent: available map area (pre-configured). Do not edit. Contact Keypro support for help as necessary)
    - projection: coordinate system
    - mapCenter: default map center when logging into the system
    - zoom: default placement scale when logging into the system
- Layers: layers included in the map

Coordinate systems

Select **Keygwt_Core -> Coordinate systems.**

- Name: name of the coordinate system (usually the same as the code)
- Code: the code used for the coordinate system

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- SRS details: specified in accordance with the PROJ.4 coordinate system
- **Note!** The options visible to users are configured in Text Constants. See the Coordinate system options chapter.

Applications

Do not edit!

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Layers

Defining layers

Select **Keygwt_Core** -> **Layers.**

- Type: layer type

WFS
WMS
TMS
WMTS
OSM
Google
MapServer
ComboMS

- Name: unique internal name of the layer
- Label: internal label of the layer
- Label [fi]...Label [en]: label of the layer and its translations shown to the user.
- URL: URL for loading the layer
- Parameters: layer-related parameters that will be sent to the map server
- Options: layer-related options that will be sent to the map server
- Order number:
- System:
- Print url:
- Data model:
- Metaresource: WFS meta resource (see WFS Resource)

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- Additional data models:

Layer group permissions

Select **Keygwt_Core** -> **Layer group permissions**.

- Layer: see the Configuring layers chapter.
- User group: the user group that has access to the layer (see User groups available in KeyLight).

Layer locks

Data import locks the layer into which the data is imported for the duration of the operation in order to ensure that the layer cannot be deleted while data is being imported. To remove the lock in problem situations, go to the Admin site (**Keygwt_core** -> **Layer locks**).

Layer legend elements

Select **Keygwt_Core** -> **Layer legend elements**

- Layer legend: See Layer legends.
- Description [fi]... Description [en]: a description and translations of the layer legend element, which will be displayed to the user
- Fill color: symbol fill color that will be displayed in the legend, for example, the color used to fill in a circle.
- Stroke color: symbol stroke color that will be displayed in the legend, for example, the color used to draw a circle.
- Stroke width: Line width of the frame of symbols shown in the legend.
- Type: symbol and preview image that will be displayed in the legend.
- Line dash length (px): length of a line for drawing a dashed line. In addition, the line space length must be defined for this purpose.
- Line space length (px): length of a line space for drawing a dashed line. In addition, the line dash length must be configured for this purpose.
- Icon URL: the URL address of an image displayed instead of a symbol.
- Order number: order of elements displayed to the user.

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Layer legends

Select **Keygwt_Core** -> **Layer legends.**

- The layer legend determines the layer on which the legend will be displayed, and the layer legend elements determine the content of the legend. Layer legend elements are discussed in the Layer legend elements chapter.
- Layer: layer on which the legend is displayed (see the Defining layers chapter.

Layer info

Select **Keygwt_Core** -> **Layer info.**

- Node: See Layer switcher nodes.
- Header [fi].. Header [en]: a header and its translations that are displayed to users.
- Description [fi]... Description [en]: the description of the layer and its translations.
- Copyright [fi]...Copyright [en]: the copyright information of the layer data with its translations.
- Source [fi]... Source [en]: the source of the layer data.

Freely configured extra data for layer info

Select **Keygwt_core -> Layer info EAV values**.

- Entity ct: not used
- Entity id: layer info to which the freely configured extra data will be linked
- Text: information as text
- Link: a URL link to the data, if available
- Extra data: Information specified for the layer data model. See Configuring freely configured extra data.
- Created: creation date

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Layer switcher nodes

Select **Keygwt_Core** -> **Layer switcher nodes.**

- Name: internal name of the layer switcher node
- Node type: whether this is a layer or a layer group.
- Parent: the parent under which the layer switcher node will be created. If nothing is selected, the node will be created at the highest level of the hierarchy.
- Label: an internal label,
- Label [fi]...Label [en]: a group label and its translations displayed to users. For individual layers, the layer label is displayed.
- Order number: the position within a group
- Layer: the layer in question (see Configuring layers).
- Checked: whether this is selected by default. Not applicable for groups.
- Expanded: whether this is expanded by default. Applies to groups only.

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Defining point object types

Select **Keycore_Point** -> **Point object types**

- Name: type name
- Label...Label [en]: the label and its translations displayed to the user
- Symbol name: the name of the symbol displayed on the map
- Point object type category: Specify the available options in the POINT_TYPE_CATEGORY group under Text constants. (Editing text constants)

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Thematic layers

Modifying thematic layers requires in-depth system knowledge, so it is smart to leave everything except corrections to translated texts to Keypro's specialists.

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Mapping

Mapping defaults

To set the defaults, go to a **Survey file import** form in the application and click **Save as defaults** in the drop-down menu for **Save**. The selection is only visible to admin users.

Mapping configurations

Mapping configurations specify the order of fields in a file and the character used as a separator.

Select **Keygwt_Keyconvert -> Mapping configs**.

- Label: the name of the mapping configuration
- Separator: the separator used to separate fields in the mapping file
- Mapping options: the fields included in the mapping data.
    - Mappable: the content of the field; the options are discussed in Keyconvert mappables.
    - Column number: the order of columns in a land survey file. Column numbering must start from zero and there can be no gaps in the numbering. The order in which data is added is not relevant.

Mapping methods

Select **Keygwt_Keyconvert** -> **Mapping methods**.

The **Mapping methods** admin page is used to manage the MAPPING_METHOD group under Text constants, and the group can also be accessed through Text constants (Editing text constants).

- Text [fi]... Text [en]: the name of the mapping method and its translations
- Numeric value: not in use
- Order no.: the order in which mapping methods are shown to users on

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selection lists

Land survey file as raw text

The application's form is the primary form that should be used for land survey file processing. To view the file as raw text, access it through this page.

Select **Keygwt_Keyconvert** -> **Survey files**.

Do not edit the survey file's fields or add new ones through the admin site.

Keyconvert mappables

Keyconvert mappable is a field (column) on the survey file form.

Select **Keygwt_Keyconvert** -> **Keyconvert mappables**.

The admin page for **Keyconvert mappables** includes the text constant group KEYCONVERT_MAPPABLES, which can also be accessed through text constants (Editing text constants).

- Text [fi]... Text [en]: the name of the mapping information field and its translations
- This field is for information that has not been specified as being included in other columns: it is recommended that this be configured for one field only. If more than one field is specified, the field with the largest number will collect the information. (Mapping configurations). This data will be saved in the Numeric value 4 field in the text constants.
- **Note:** If there is a problem, check that the Numeric value fields have values between 1 and 7 and that the Numeric value2 of the rows used is 1.

Results of the survey

The application's form is the primary form that should be used for survey result processing.

Survey objects

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The old way of defining the object types in imported files.

Code set

A code set is a set of kind codes, according to which the file's rows will be interpreted. See the Convert codes chapter.

Select **Keygwt_Keyconvert** -> **Code sets.**

- Text: the name of the code set.
- Text [fi]... Text [en]: the name of the code set and its translations
- Order no
- Numeric value
- Text value

Survey coordinate orders

The old way of defining the order of coordinates in imported files.

Height accuracies

Select **Keygwt_Keyconvert** -> **Height accuracies.**

The **Height accuracies** admin page is used to manage the H_ACCURACY group under Text constants, and the group can also be accessed through Text constants ((Editing text constants).

- Text [fi]... Text [en]: the height accuracy and its translations displayed to the user
- Numeric value: numeric value equivalent to the height accuracy text
- Order no.: the order in which height accuracies are shown to users on selection lists

Convert codes

Select **Keygwt_Keyconvert** -> **Convert codes**.

- Code: the type code in the mapping file
- Table name: database table name equivalent to the code

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- Type field name: the name of the object type field in the object's database table equivalent to the code
- Type field table: the database table name of the object type equivalent to the code
- Type field id: the primary key of the object type equivalent to the code
- Id text: the default ID of the object equivalent to the code
- Object pk field name: the name of the primary key field in the object's database table equivalent to the code (usually ID or MSLINK).
- Description: the description of the object equivalent to the code
- Description [fi]... Description [sv]: the description of the object equivalent to the code
- Code type: an alternative way of specifying the code type (old method)
- Object type: an alternative way of specifying the object type (old method)
- Specific type: an alternative way of specifying the object type (old method)
- Geometry type (mapping geometry): the object's location type, see Geometry types.
- Code set: the code set to be used (see Code set).

Kind codes

The old method of defining the meaning of codes in a file.

Location accuracies

Select **Keygwt_Keyconvert** -> **Location accuracies.**

The **Location accuracies** admin page is used to manage the LOCATION_ACCURACY group under Text constants, and the group can also be accessed through Text constants (Editing text constants).

- Text [fi]... Text [en]: the location accuracy and its translations
- Numeric value: the numeric value equivalent to the location accuracy text
- Numeric value 4: this must be an unambiguous number (in the old method, it must match the equivalent field in the SURVEY_CONSTANT table)

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- Order number: the order in which accuracies are shown to users on selection lists
- **Note!** Conduit location accuracies are provided by the text constant group CONDUIT_LOC_ACCURACY, and cable location accuracies by the group CABLE_LOC_ACCURACY.

Geometry types

Select **Keygwt_Keyconvert ->** **Geometry types.**

Geometry types is an admin page that is only used for translation purposes. Edit only the **Text [fi]... Text** [sv] fields.

Survey procedures

Select **Keygwt_Keyconvert** ->**Survey procedures.**

Survey procedures is an admin page that is only used for translation purposes. Edit only the **Text [fi]... Text** [sv] fields.

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Printing

Defining the printout legend

- Title [fi]... Title [sv]: printout legend and its translations displayed to the user
- Header text [fi]... Header text [sv]: text to be printed in the printout legend's top section and the related translations
- Footer text [fi]... Footer text [sv]: text to be printed in the printout legend's bottom section and the related translations
- Copyright [fi]... Copyright [en]: not used
- Description [fi]... Description [en]: description to be printed in the printout legend and the related translations.
- Extra text [fi]... Extra text [en]: not used.
- Image: logo to be added in the printout legend. The image must be stored in a specific directory on the application server. Please contact Keypro's customer support for help when you want to add or change an image.
- Scale: not used

Print frame defaults

Print frame defaults cannot be saved in the application but must be modified through the admin site.

1. Select **Keygwt_Print** -> **Print frame defaults.**
2. Edit the value in the fields as necessary.
3. Click **Save**.

Note! The names of the fields must match the names used in the application's software code. For this reason, contact Keypro's support when you are adding a new field or if you encounter any problems.

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Tasks

Defining task categories

Select **Keycore_task-> Task categories**.

- Text [fi]... Text [sv]: task category and its translations
- Order number: order number for displaying the categories in a drop-down menu.

Configuring task templates

Select **Keycore_Task** -> **Task templates**

- Category: category of the task template. The same options as for the task category (Defining task categories).
- Name: name of the task template.
- Identifier: identifier of the task template.
- Tasks: tasks included in the task template.
    - Task type: Configuring task types
    - Task state: Configuring task states

Configuring task types

Select **Keycore_Task** -> **Task types**

- Identifier: numeric identifier of the task type
- Task category: type of the task category (see the Defining task categories chapter).
- Work description: a description of the work.
- Unit: unit applied for measuring the amount of work. For example, hours or amount.

Defining task states

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Select **Keycore_task-**> **Task states**.

- The Task states admin page is used to manage the TASK_STATE group under Text constants, and the group can also be accessed through Text constants: Editing text constants.
- Text [fi]... Text [en]: task state and its translations.
- Order: order in a drop-down menu.
- Text value: if the value is 1, the task has been completed.

Contractors for tasks

Select **Keycore_task-**> **Contractors**.

- Name: Contractor’s name
- Task offers: quotes provided by the contractor

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WFS interface

KeyCom can use and display external WFS service data through the WFS interface.

WFS Service

The URL to the WFS service**, e.g.,** http://myserver.com/geoserver/service/wfs

Version: WFS protocol version. The current recommendation is WFS v_1.1_.

Capabilities xml: collection of WFS features in XML format. This must be compiled manually by combining the service address and a search string, for example, http://myserver.com/geoserver/service/wfs?SERVICE=WFS&VERSION=1.1.0&REQUEST=GetCapabilities.

Options: Currently, an empty JSON collection: {}

WFS Resource

Name: a user-friendly name for the WFS metaresource

Form: a description of the form fields (see Configuring the WFS resource form).

Options: options related to searching and displaying WFS data

- id_attr: the name of the id field
- geometry_attr: the name of the location field
- item_label_format: label format according to Python's format specification
- attributes: a list of the fields to be retrieved. May include localization.

Service: the WFS service being used (see WFS interface).

Typename: the field name offered by the selected WFS service

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Description xml: a description of WFS features in XML format. This must be compiled manually by combining the service address and a search string, for example, http://myserver.com/geoserver/service/wfs?SERVICE=wfs&VERSION=1.1.0&REQUEST=describefeaturetype&TYPENAME=typename
Note that the TYPENAME parameter must be the same as the **Typename** configured above

ID:

Configuring the WFS resource form

The form must be configured in the JSON format.

```
{
  // Form title as visible to the user
   "title": {
       "fi": "Kaapelit",
       "en": "Cables"
  },

  // The form fields to which the WFS feature data is mapped
   // NOTE: This is optional for WFS resources. All data can be retrieved with the "attributes" option
  items: [
     {
      // Field type
       "type":"textfield",

      // Data attribute (column) name.
      // Must be one of the columns stored in options
       "name": "id",

      // Field label with localization prefixes
       "label":{
         "fi":"ID",
         "en":"ID"
       }
    },

    // ...
  ],
```

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```
 "view": {
   "toolbar": {
    // Navigation form toolbar buttons
     "buttons": [
       "search",
       "clear"
    ]
  }
]
```

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Import tool settings

Import tool settings require in-depth understanding of the system. The person modifying the settings must know the full names of the Django models and modules used for data import. In addition, setting the default values of objects may require the retrieval of foreign key values from the database.

Shape import objects

Select **Keycore_import_tools** -> **Shape import objects**

On the displayed list, you can see the import status of each object.

Delete imported items

1. Use the check box to select the items you want to delete from the list
2. On the drop-down menu above the list, select **Delete selected Shape import objects**.
3. Click the **Go** button.

Shape import events

Select **Keycore_import_tools** -> **Shape import events**

- On the displayed list, you can see the basic data on import events.
- Open a single event to view a more detailed event log.

Deleting a shape import event and the related objects:

1. Select the import event(s) to be deleted.
2. On the drop-down menu above the list, select **Delete with imported objects**.
3. Click the **Go** button.

Shape import methods

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- Name: name used on the admin site.
- Label [fi]... Label [en]: name and its translations displayed to the user.
- Module: module used in the import.
- Options: json configuration for the import. The required settings include the plan state (plan_state_id) and plan type (plan_type_id).

For example:

{

"plan_state_id": 231830,

"plan_type_id": 231990

}

Check the values in the PLAN_STATE and PLAN_TYPE groups under **Text constants**. The type of import report is obtained from the list of External document types (see the External document types) chapter. If these values are missing or incorrect, the import will fail.

Shape import mapping configuration

- Method: The applicable import method (see Shape import methods).
- Source type: Geometry type, such as a line.
- Destination model: The full name of the Django model, for example: keyrns_core.models.Cable.
- Options: data in JSON format, with an “attrs” value that includes a set of key/value pairs for defining the network object data to be imported.

In key/value pairs, the *key* (on the left) is equivalent to a single field for a network object (for example, cable type, stroke color, placement scale for telecom premises) and the *value* (on the right) can be either a fixed text or number, or a special variable, the value of which is retrieved from the source data, meaning either a shape file or CSV file. When a variable is used, add the character $ in front of it and enter the field name by using the font size used in the source data.

An example:

```
{"attrs": {
  "CableType_id": 12930,
  "State_id": 330,
```

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```
    "Remarks": "$comments"
    }
}
```

In this example, the *CableType_id*- and *State_id* fields are foreign keys for another table, and a comments field from the data to be imported will be entered in the *Remarks* field.

It is easier to complete these fields on the admin page because the list of fields will be created under the text field when the Destination model field has been completed correctly and the data has been saved.

Refresher: fields for the object. This will be completed when the data has been saved and the Destination has been correctly set. The field names can be checked on this list when entering the data for the Configuration field.

As an example, importing addresses

The configuration depends on the format of the original file.

The address file in this example:

CITY,ZIP,APTS,STREETNO,STREET,X,Y

Kuikkavesi,65530,1,1,Kuikkukatu,3459116.25,6710938.97

Kuikkavesi,65530,1,2,Kuikkukatu,3459079.20,6710953.52

Kuikkavesi,65530,4,3,Kuikkukatu,3459144.03,6710958.82

Required configuration:

- **Method:** address [keycore_import_tools_shcape_import.methods.simple.simple]
- **Source type:** Point
- **Destination model**: keygwt_address.models.AddressCreatorModel
- **Configuration:** {"attrs": {"streetno": "$STREETNO", "streetname_fi": "$STREET", "city_fi": "$CITY", "zipcode": "$ZIP"}, "extra": {"apartments": "$APTS"}}

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GDPR

GDPR is the new General Data Protection Regulation of the European Union. Its purpose is to protect the privacy of users and change the companies' mindset and measures related to data protection.

The related user groups

With the GDPR, two new user groups have been added to the system. The new user groups are GDPR_NORMAL_ACCESS and GDPR_EXTENDED_ACCESS, which are included in the default user groups. See User groups available in KeyLight for further information.

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