

# Generated values

[generated](#), [generator](#), [values](#), [value](#), [generable](#)

The main functionality of all generator is generating values. In CzechIdM is princip of generated values same. During creating entity is called generator manager. Manager will iterate over all available and enabled generator for currently created identity. Generators are used only when is entity **CREATED**. Afte creating isn't possible use generators behavior.

## Entities that allow generating values:

- IdmIdentity (users).

## Generators

Generators are setup via agenda \*Generated values\* (access via Settings). All generators supports these settings:

- **Order**: generators are ordered by this attribute, generating is done from lower to higher 0 → +10 → +20 → ...
- **description**: description for created generator
- **regenerate value**: generators not regenerated values that was send with entity, (BEWARE, these settings must be explicit implement in script generators),
- **disable**: generator can be created and set as disabled, generators marked as disabled is skipped during generating,
- **system generator**: Generator created by system, can't be deleted and changed order.

## Identities

Currently are available these generators

### IdentityUsernameGenerator

Standard username generator uses firstname and lastname for generating username. Order of firstname or lastname can be setup by settings. Generator also allow check generated username for unique. The check is done by search in existing identities.

## Edit generator

**Entity type**

IdmIdentityDto

Generation is done for a specific type of entity. Based on the selected entities will be shown generators

**Generator type**

Standard username generator

**Order** ?

0

**Description**

☐ Regenerate value

If will be checkbox checked, the value from user will be regenerated by the generator. If will be checkbox unchecked, the generator will not change value.

☐ System generator

System generator cannot be deleted. Some of its configurations are not editable.

☐ Disabled

Disabled generators are ignored

Standard username generator

**Generator settings**

**Connection character**

-

The character(s) to be used to connects the first name and surname. The value does not need to be filled in. In this case, the first name and surname will be connected without any coupling character.

**Count of characters from the first name**

1

The maximum count of characters to use from the first name.

**Count of characters from the surname**

The maximum count of characters to use from the surname.

☒ As first value use first name

When generating, the first name of the user will be added first. If you unchecked, the order will be the opposite.

**Character/s for filling white spaces**

.

Character/s will be used to replace white spaces, even outside the username. If you leave blank, all spaces will be removed.

☒ Verify unique username

The newly generated username will be searched. If username will be exists, numeric suffix will be added. Suffix may be incremented.

Close

Save

## IdentityEmailGenerator

## Edit generator

**Entity type**

IdmIdentityDto

**Generator type**

Standard email generator

**Order**

0

**Description**

☐ Regenerate value

If will be checkbox checked, the value from user will be regenerated by the generator. If will be checkbox unchecked, the generator will not change value.

☐ System generator

System generator cannot be deleted. Some of its configurations are not editable.

☐ Disabled

Disabled generators are ignored

**Standard email generator**

**Generator settings**

**Connection character**

.

The character(s) to be used to connects the first name and surname. The value does not need to be filled in. In this case, the first name and surname will be connected without any coupling character.

**Count of characters from the first name**

2

The maximum count of characters to use from the first name.

**Count of characters from the surname**

2

The maximum count of characters to use from the surname.

☒ As first value use first name

When generating, the first name of the user will be added first. If you unchecked, the order will be the opposite.

**Character/s for filling white spaces**

.

Character/s will be used to replace white spaces, outside the username and email suffix. If you leave blank, all spaces will be removed.

**Email suffix**

@example.tld

The Suffix will be added to the username and together they must create an email address.

☐ Generate based on username

Email will be based on existing username. The username must exist at the moment of generation.

Close

Save

Standard email generator uses firstname, lastname or username for generating email. Base for generating you can choose by settings. Also characters count and connection character.

Generator is very similiar to username generator. And behavior with compose is same.

## IdentityScriptValueGenerator

Scripted generator uses script from category 'SYSTEM' for generating values. Into script is passed whole identity and the identity must be also returned. The script also contain definition for generator. For example information about settings.

## Create new generator

**Entity type**

IdmIdentityDto

Generation is done for a specific type of entity. Based on the selected entities will be shown generators

**Generator type**

Scripted Generator

**Order** ?

0

**Description**

☐ Regenerate value

If will be checkbox checked, the value from user will be regenerated by the generator. If will be checkbox unchecked, the generator will not change value.

☐ System generator

System generator cannot be deleted. Some of its configurations are not editable.

☐ Disabled

Disabled generators are ignored

**Generator settings**

**Script code**

myTestScript

Script code to run.

Close

Save

The generator executes the defined script. At the script input are these attributes 'entity' and 'valueGenerator'. Beware functionality 'value regenerate' must implement the script itself. The script must be from the system category.

## IdentityFormDefaultValueGenerator

Form default generator is used for add default values into identity eavs. The generator is also created during CzechIdM init phase. The generator skip permissions for Form values - values will be created even user hasn't permissions for create.

Create new generator

Entity type

IdmIdentityDto

Generator type

Addition default values for the forms with next informa...

Order

0

Description

☐ Regenerate value

If will be checkbox checked, the value from user will be regenerated by the generator. If will be checkbox unchecked, the generator will not change value.

☐ System generator

System generator cannot be deleted. Some of its configurations are not editable.

☐ Disabled

Disabled generators are ignored

Generator add default values for all attributes.

Generator settings

Form

Select or type to search ...

Form must be for given entity type (IdmIdentity). If you leave form empty, the values will be added to all form definition.

Separator

If the attribute is multi-valued and the default value contains multiple values, write character(s) that seperate values. If left blank, a default character will be used ','.

Close

Save

## Admin guide (to be completed)

- Generators overview

## Devel guide

- Generated values developer guide

From:

<https://wiki.czechidm.com/> - CzechIdM Identity Manager

Permanent link:

[https://wiki.czechidm.com/devel/documentation/generated\\_values?rev=1549027806](https://wiki.czechidm.com/devel/documentation/generated_values?rev=1549027806)

Last update:

2019/02/01 13:30

