

Attributes of role

[role](#), [attributes](#), [parameters](#), [assigned](#), [parametrization](#)

What are role attributes

Role attributes determine what additional information **can (must)** be filled in a user's **assigned role**. A typical example can be the **IP address** of a user's end station, which must be filled in a role assignment request.

The **definitions of what attributes** are to be filled for the role are managed on the **role detail** (role attributes tab). Here, you define not only what attributes to show in the request, but also their **default values** and **validation settings**. This definition is part of the **role approval** process (off by default).

How it works

Definition

First, you need to **create the main definition** of all attributes which could be used in role **sub-definition**. The **main form definition** can be created in the **Form definitions** agenda.



Attributes from the **main definition** can be used multiple times in multiple roles.



Main definition must be created for type **IdmIdentityRole**.



Now isn't supported confidential **and** attachment **attributes!**

Then, you need to **create sub-definition** of attributes which should be filled in requesting a role. Sub-definition can be created on the role detail on the **Role attributes** tab. In sub-definition you can select an attribute only from main definition. So first what you need to do, is select main definition and save it. Then you can create **attribute definition for the role**.

IP role attribute detail

Role
OldRoleWithAttributesTwo

Attribute definition
IP

Default value
192.168.0.1

Required
 Unique value

Regular expression

Validate a value with the regular expression.

Minimal value

Maximum value

Close

Attribute definition for the role define:

* **Definition of attribute** from the main definition. * **Overrides the default value.** Default value from attribute in main definition will be prefilled (only on frontend). * **Overrides the validation settings.** Validation settings from attribute in main definition will be prefilled (only on frontend).

 **Only** attributes defined in the **sub-definition** will be show on role requesting!

- Basic information
- More information
- Business role
- Role authorizers
- Role catalogue
- Permissions
- Automatic roles
- Users with role
- Role attributes**
- Systems
- Accounts

Definition of assigned attributes

TEST-ONE (TEST-ONE) × ▼ Save

First select (and save) the main definition. From this definition, you can select attributes that should be filled in during role assignment.

Role attributes

+ Add ↻

<input type="checkbox"/>	Attribute definition ⌵	Default value	Id
<input type="checkbox"/>	Q IP	192.168.0.1	4b23437
<input type="checkbox"/>	Q Number of fingers	20	bc9e865

1 - 2 of 2 records

Using on the role request

If some requested role **has attributes**, then is rendered form on **role concept detail**:

Add roles

Role

RoleWithAttributesTwo

Contracted position

default

Connection to organization or another tree structure


Valid from 15.01.2019 **Valid till**

Role attributes

IP 192.168.0.1

Number of fingers 20

Close Set

 Form with role's attributes is rendered only if **one role is selected!** If are selected more roles on the detail, then user **cannot fill the attribute's values** directly. In this case user can create role-concepts for more roles and then editing the values of attributes for each concept **one by one**.

If you add multiple roles in one request and some from this roles will have **required attribute** (without default value), then will be created concept **not valid**. In this case you will see **warning icon** on the invalid concept.

Requested for

John Doe (john.doe)






» Show profile

Applicant
admin

State
Concept

Description
Verbal description of a request to change the permissions

☰ Current assigned roles (includes requested changes)

Role	Contracted position	Valid from	Valid till	Direct role	Automatic role	Actions
AttributeOne	default	15.01.2019			<input type="checkbox"/>	  
Helpdesk	default	14.12.2018			<input type="checkbox"/>	 

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You can **modified existing attribute value** in assigned role. For this case was created new mode for **highlight** changes on detail of role concept:

Edit roles

Role
RoleWithAttributesTwo

Contracted position
default

Connection to organization or another tree structure

Valid from 15.01.2019 **Valid till**

Role attributes

IP
192.168.0.1

(Original value) Number of fingers	(New value) Number of fingers
20	19

Close **Set**

If a **request** that contains **attribute roles** is submitted, a standard **approving process is executes**. If the role with the attributes is approval, then the detail of the concept role, including the attributes, **is displayed in the detail of the approval user task**.

Approval of validity change of the role by the guarantee Task details

Task name
Approval of validity change of role 'RoleWithAttributesTwo' by the guarantee for user 'John Doe'

Requested for
John Doe (john.doe)
 [Show profile](#)

Applicant
admin

Created on
15.01.2019 16:18

[Back](#) [Reject](#) [Accept](#)

Role
RoleWithAttributesTwo

Contracted position
default
Connection to organization or another tree structure

Valid from 15.01.2019 **Valid till**

Role attributes

IP
192.168.0.1

Number of fingers
(Original value) 20 (New value) 19

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Upon successful **completion of the request**, the resulting concept role attributes are **copied** to the **assigned role (IdmIdentityRole)**. Attributes assigned to roles can be displayed on the **identity detail (Roles → detail → Tab "Role's attributes")**.

RoleWithAttributesTwo assignment details

Basic informations **Role's attributes**

TEST-ONE

IP
192.168.0.1

Number of fingers
19

[Close](#)

Provisioning of assigned roles

For the purpose of provisioning assigned roles, new attributes (**User assigned roles** and **User assigned roles (for this system)**) were created, which can be used in system mapping for provisioning identities. Input of the transformation into the system is a list of valid assigned identity roles. This assignment is represented by the **AssignedRoleDto** object, which mirrors the object **IdmIdentityRoleDto** and tries to simplify the work with assigned roles in the transform. This simplification is primarily based on the fact that the object contains the entire DTO (role, identityContract, ...) instead of the UUID and mainly contains a **map of all the attributes of the assigned role** (where the key is the attribute code and the value is a list of all attribute values).



Input for transforming into the system (**attributeValue**) is a list of all valid user roles (list of **AssignedRoleDto**). This attribute is only for **provisioning** and for default strategy (SET).



Structure of **AssignedRoleDto** is [here](#).



Input of transformation for attribute **User assigned roles (for this system)** will contain only valid assigned user roles assigned this system!

Example script for print assigned roles to the string:

```
import eu.bcvsolutions.idm.acc.domain.AssignedRoleDto;
import eu.bcvsolutions.idm.core.api.dto.IdmRoleDto;

if (attributeValue) {
    String result = "";
    for(AssignedRoleDto dto : attributeValue){
        result = result + "Role: [" + dto.getRole().getCode() + "]"
Attributes: [" + dto.getAttributes().toString() + "];

    }
    return result;
}
return "";
```

Output of this script:

```
Role: [Helpdesk] Attributes: [[]]
Role: [RoleWithOneAttribute] Attributes: [[IP:[192.168.0.122]]]
Role: [RoleWithTwoAttributes] Attributes: [[Number of fingers:[20],
IP:[168.192.0.10]]]
```


Admin guide (to be completed)

- [Role attributes](#)

From:

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

Permanent link:

https://wiki.czechidm.com/devel/documentation/role_attributes

Last update: **2019/04/16 08:07**

