

Report - Compare values in IdM to system (extras, before CzechIdM 12)

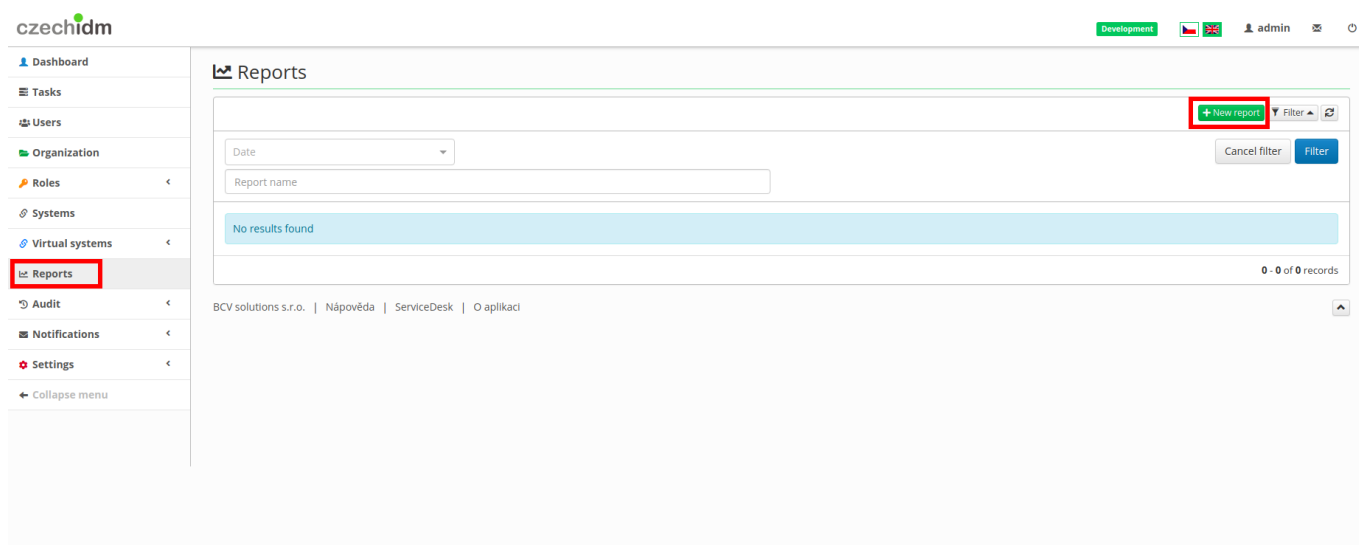
This tutorial shows how to create a report for the chosen identities which compares identity attribute values to the mapped attribute values in a connected system. This report can be used if you change some attribute or in script where the value is calculated. There is no need to set the connected system to read only.

Preparation

- The report is currently in the extras module.
- Have a connected system with some provisioned identities.

Report

- First of all, go to **Reports** in the side menu
- Now let's create a new report, click on green button **New report**



- Select report 'Compare values in IdM with values in system'
- And now we need to select the **system** we want to compare the values with. There is a select menu so you can select one from list of all connected systems.
- **Attributes** - we need identifiers of mapped attributes separated by a comma. Scripts in transformation are applied too. Please note that attributes can't be Inactive, otherwise the report fails.
- **Mapping** - we need the ID of the mapping where these attributes are defined.
- **Treenode** - you will select identities in this organization and identities in child organizations
- **Identities** - select identities. There is a select box and it is convenient if you want a report for only a few identities.
- These IDs can be found in tables with IdM in development stage or in Audit. But we will show you the easiest way to get those IDs.

Create new report

Report

Compare values in IdM with values in system (compare-value-with-system-re... × ▾

System

Select or type to search ... ▾ *

Attributes

Mapping

Treenode

Organization ID. Filtering users only on this organization unit and recursively down.

Identities

Select or type to search ... ▾

For testing purpose. This option process only selected Identities. But will be iterate over all accounts.

[Close](#) [Generate report](#)

- Click on tab **Systems** and select the system whose values you want to compare the values to, and click on the 'magnifying glass' button. It will open detail of that system.

czechidm Development admin

Systems

System name + Add Filter Cancel filter Filter

| System name | Description | Asynchronous provisioning | State | Blocked operations | Id |
|---|-------------|---------------------------|-------|---|---------|
| <input type="checkbox"/> <input type="magnifying-glass"/> ad groups lopaticka | | <input type="checkbox"/> | | | b86ecc1 |
| <input type="checkbox"/> <input type="magnifying-glass"/> ad users lopaticka | | <input type="checkbox"/> | | | fb1e8b2 |
| <input type="checkbox"/> <input type="magnifying-glass"/> blokace | | <input type="checkbox"/> | | | 78ad9f7 |
| <input type="checkbox"/> <input type="magnifying-glass"/> contracts | | <input type="checkbox"/> | | | 69c1db8 |
| <input type="checkbox"/> <input type="magnifying-glass"/> Copy-of-role | | <input type="checkbox"/> | | Read-only - provisioning queue is available | 50a5449 |
| <input type="checkbox"/> <input type="magnifying-glass"/> Identity_a | | <input type="checkbox"/> | | | 9807e5a |
| <input type="checkbox"/> <input type="magnifying-glass"/> Identity_b | | <input type="checkbox"/> | | | fd35661 |
| <input type="checkbox"/> <input type="magnifying-glass"/> ldap | | <input type="checkbox"/> | | | 419c18f |
| <input type="checkbox"/> <input type="magnifying-glass"/> ldap groups dummyLdap | | <input type="checkbox"/> | | | e8ffb0a |
| <input type="checkbox"/> <input type="magnifying-glass"/> ldap users dummyLdap | | <input type="checkbox"/> | | | 3dfb57 |

Page 1 of 2 1 2 1 - 10 of 12 records Number of records 10

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- Click on tab **Mapping**
- You will see attributes mapping, there could be more than one, specifically for synchronization, but select one for **provisioning**.
- Click again on the 'magnifying glass' button.

ad users lopaticka System details

Attributes mapping attribute groups for operation and entity type + Add Filter

| Operation type | Mapping name | Object name | Entity type | Id |
|---|--------------|-------------|-----------------|---------|
| <input type="checkbox"/> <input type="magnifying-glass"/> Provisioning | prov | __ACCOUNT__ | Identity | 5b35513 |

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- Now you have to open the attribute mapping and in the URL of your browser find the ID of your selected mapping. In the picture bellow it is shown where you can find that ID and copy it.

← → ↻

localhost:3000/#/system/fb1e8b25-d0a5-41cd-b05a-d3ea463f5c69/mappings/5b355134-8c9e-4d3e-9fe0-e2f0963e5ecf/detail?_k=qv6oqz

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ad users lopatica System details

Basic Information

Configuration

Provisioning brake

Accounts

Entities

Scheme

Mapping

Roles

Synchronization

Provisioning

Mapping of attributes for IdM entity and operation type

Detail

Account management

Operation type

Provisioning

Mapping name

prov

Object name

__ACCOUNT__

Entity type

Identity

☐ Account protection (before delete)

Enables account protection before deletion. When trying to remove an IdM account (last relation assigning this account), it will be marked as 'is protected'. Such an account will not be deleted or provisioned. To really delete the IdM account (and thus the account on the end system), it will occur after the expiration of the protection interval. Deleting performs a scheduled task.

Length of protection interval (in days)

Back

Save and continue

Mapped attributes

+ Add

Filter

| | Name | IdM key | Identifier | Entity attr. | Extended attr. | Transform from system | Transform to system | Id |
|--------------------------|-------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| <input type="checkbox"/> | displayName | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8ab6788 |
| <input type="checkbox"/> | ldapGroups | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 75d5f37 |

- In the lower part of this page you will see your mapped attributes, select one and click again on 'magnifying glass' button.

Mapped attributes

+ Add

Filter

| | Name | IdM key | Identifier | Entity attr. | Extended attr. | Transform from system | Transform to system | Id |
|--------------------------|----------------|----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| <input type="checkbox"/> | displayName | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8ab6788 |
| <input type="checkbox"/> | ldapGroups | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 75d5f37 |
| <input type="checkbox"/> | __NAME__ | username | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 55bd4b5 |
| <input type="checkbox"/> | sAMAccountName | username | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2394820 |

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- ID of this attribut is again in the URL in your browser, copy it somewhere too.
- You can copy more IDs of attributes from same mapping.

ad users lopaticka System details

Attribute mapping details

Basic settings Where is attribute used?

☐ Disabled

Mapping name
prov (Identity - Provisioning)

Attribute in schema
displayName (_ACCOUNT_)

Name
displayName

User-defined name of the attribute

Strategy
Set value as it is

☐ Send always
☐ Send IdM value only if its not null
☐ Identifier
☐ Entity attr.
☐ Extended attr.
Main form definition is supported only.

Entity field
Select ...

IdM key

Name of entity attr., name of extended attr., or key to confidential storage.

- If you want get an ID of tree node, click on **Organization** and on the tab **Structure elements** click on the 'magnifying glass' button of one of the shown tree nodes.

Organizational structure

Structure Structure elements Users

Administrátoři (admins)
Externisté (EXT)

+ Add Filter

Code / Name
Superior element

Recursively by tree structure down

| Code | Name | Superior element | Inactive | Id |
|--------|----------------|------------------|--------------------------|---------|
| admins | Administrátoři | | <input type="checkbox"/> | 4ec9ebf |
| EXT | Externisté | | <input type="checkbox"/> | 0d98cf8 |

1 - 2 of 2 records

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- Again in URL there is an ID of that organization node.

Externisté (EXT) Element details

Basic information

Structure type
Organization structure (ORGANIZATIONS)

Code
EXT

Name
Externisté

Superior element
Select or type to search ...

Inactive

Back Save and continue

- Now we have all the necessary IDs, so we can return to creating new 'Compare values in IdM with values in system' report
- Select System (the one which has the mapping we used)
- Write in IDs of attributes as in the picture bellow (seperated by comma)
- Past Mapping ID
- You can pass a tree node or as in our example select a few identities.
- Click on **Generate report**

Create new report

Report

Compare values in IdM with values in system (compare-value-with-system-re...

System

Select or type to search ...

Attributes

8ab6788a-030d-4724-96b0-01224140ae6c,2394820a-9026-46e3-b3bf-6d5a781!

Mapping

5b355134-8c9e-463e-9fe0-e2f0963e5ecf

Treenode

Organization ID. Filtering users only on this organization unit and recursively down.

Identities

× spr ing (springe) × helpdesk

For testing purpose. This option process only selected identities. But will be iterate over all accounts.

Close
Generate report

- Now the report is generating, it could take a few minutes, based on how many attributes and how many identities are selected.
- Once the report is generated, it can be downloaded in xlsx or in json. Use the xlsx version, the json contains raw data.

Reports

+ New report

▼ Filter

Date

▼

Report name

Cancel filter

Filter

| | State | Report type | Created | Creator | Download | Id |
|--|----------|---|---------------------|-----------------------|----------|---------|
| | Executed | Compare values in IdM with values in system (compare-value-with-system-report) | 10.09.2019 16:35:29 | Administrator (admin) | | 4d404b5 |

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- You can see an example of the report bellow.
- It shows status in first column, whether the identity has different selected attributes and

username in the second column. This is by default and it cannot be changed.

- Next are the attributes we selected.
- For single value attributes:
- If value is blue, **it means the value in the system and in IdM is the same.**
- Otherwise it will write in green 'IdM:value' and in red 'System:value' (for example see the column phone in picture below)
- Multivalued attributes are not supported yet, only multivalued attributes with merge strategy (it is often used with Active Directory system for provisioning of membership - ldapGroups)
- Blue values are the values which are the same in IdM as in the system
- Red values are values missing in IdM which are present in system
- Green values are the values which are present in IdM but missing in the system

| Status | Username (uid) | NAME | email | 'Rights' - multivalued merge | phone |
|------------|-------------------------|--------|-----------------------------|------------------------------|-----------------------------------|
| CHANGED | franta (franta) | franta | ondrej.kopr@bcvsolutions.eu | 01 03 02 | IdM:776236001 System:776236555 |
| ok | horka (horka) | horka | ondrej.kopr@bcvsolutions.eu | 01 02 | +420608111881 |
| not exists | jaros.jary (jaros.jary) | | | | |

Override script

If you write a new script or want to change the current one, but you are in the production environment, you can use this report to be sure nothing bad happens. You can make a report with the attribute and different script. The report will compare value transformed with this new script and value stored in system and you will have confirmation about the changes that would happen.

- Click on **Setting** and **Script definitions** and click on **Add**

The screenshot shows the czechidm web interface. On the left, the 'Settings' menu item is highlighted. In the main area, the 'Script definitions' page is displayed. A table lists various scripts with columns for Code, Script name, Category, Script description, and Id. The 'Add' button in the top right corner of the table is highlighted with a red box.

| Code | Script name | Category | Script description | Id |
|-----------------------------|--|---------------------|---|---------|
| compleIdentityRelationState | Compile Identity-relation state | Transformation from | Compiles Identity-relation state. Returns final state for | 6580ee2 |
| displayNameScript | displayNameScript | Transformation to | | 90dedf2 |
| getBooleanFromString | Get Boolean from String | Standard | | d32c614 |
| getFullName | Get full name | Standard | | 10419d8 |
| getFullNameWithLogin | Get full name with login | Standard | | 3851d6d |
| getFullNameWithTitles | Get full name with titles | Standard | | 51025fa |
| getOppositeBoolean | Get opposite Boolean | Standard | | 891e4af |
| getTrimmedString | Get trimmed String | Standard | | 32f7e2d |
| isAccountInProtection | Is account for given UID in protection mode? | Transformation to | | 49f3564 |
| isRoleInCatalogue | Is role in the given catalogue | Transformation to | Is role in the catalogue? Script return "true" if given | 731c474 |

- Here you need to call that new script, which will override the current one. You can generate it in the mapped attribute or copy existing the one and edit it. So write in the call for that new script.
- Leave it in Standard category.
- Write in description something like 'this script is used in report'.
- Write the code and the script name.
- Click on **Save and continue**.

New script

Code

newDisplayNameScriptReport *

Script name

newDisplayNameScriptReport *

Category

Standard x

Script description

Script calls newDisplayNameScript for report.

Script

```
1 // Inserted script: displayNameScript
2 /* Description:
3 <p><br></p>
4 */
5 scriptEvaluator.evaluate(
6     scriptEvaluator.newBuilder()
7         .setScriptCode('newDisplayNameScript')
8         .addParameter('scriptEvaluator', scriptEvaluator)
9         .addParameter('uid', uid)
10        .addParameter('attributeValue', attributeValue)
11        .addParameter('entity', entity)
12        .addParameter('system', system)
13        .build());
14
```

Body of script in groovy.

Back

Save and continue

- Again fill in System and mapping ID's
- Fill in attributes ID but after attribute ID which you want to override in the script, write colon and code of script like ID:newScriptCallScript (look below for example)

Create new report

Report

Compare values in IdM with values in system (compare-value-with-system-re... x ▾

System

ad users lopaticka x ▾

Attributes

8ab6788a-030d-4724-96b0-01224140ae6c:newDisplayNameScriptReport,2394f x

Mapping

5b355134-8c9e-463e-9fe0-e2f0963e5ecf x

Treenode

Organization ID. Filtering users only on this organization unit and recursively down.

Identities

x spring (springe) x helpdesk x ▾

For testing purpose. This option process only selected Identities. But will be iterate over all accounts.

Close

Generate report

Thank you for reading this tutorial and I hope this tutorial and report is useful to you.

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https://wiki.czechidm.com/tutorial/adm/report_compare_value_idm_to_system

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