

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

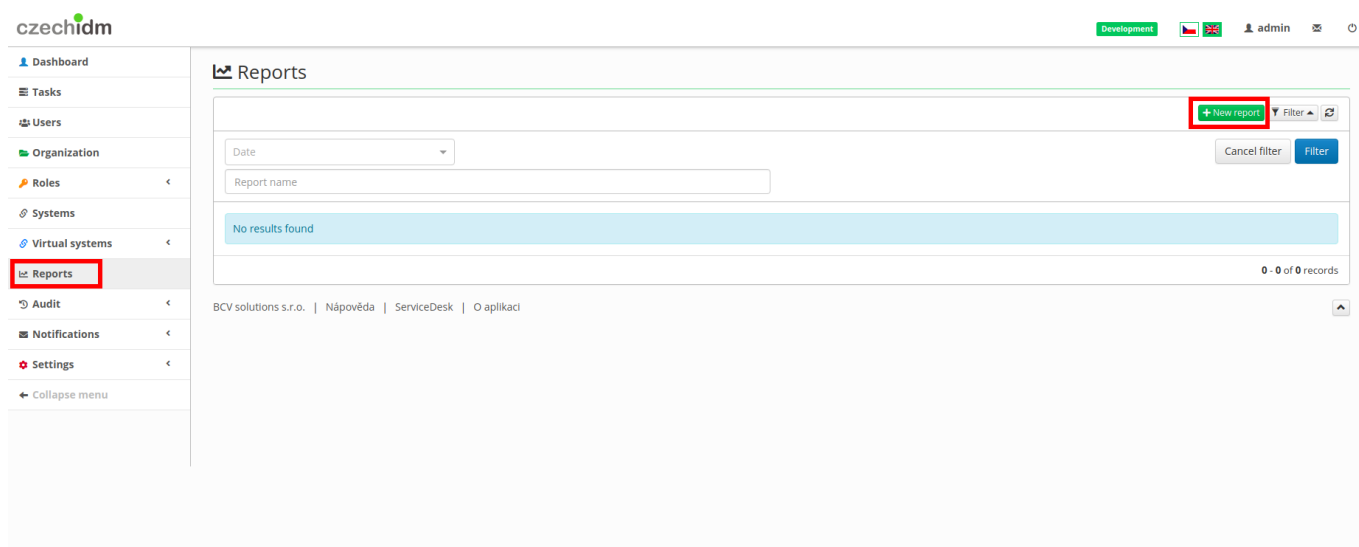
This tutorial shows how to create a report for the chosen identities which compares identity attribute values to the mapped attribute values in a connected system. This report can be used if you change some attribute or in script where the value is calculated. There is no need to set the connected system 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"/> <b>ad users lopaticka</b>		<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"/> <b>Provisioning</b>	<b>prov</b>	__ACCOUNT__	<b>Identity</b>	5b35513

1 - 1 of 1 records

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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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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)

Code / Name  
Superior element  
Recursively by tree structure down

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

1 - 2 of 2 records

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

localhost:3000/#/tree/nodes/0d98cf88-24e4-48d0-9151-da1cd0c81db0/detail?\_k=iybkoi

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Externisté (EXT) Element details

Basic information

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Structure type

Organization structure (ORGANIZATIONS)

Code

EXT

Name

Externisté

Superior element

Select or type to search ...

Inactive

Back

Save and continue

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- 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... x ▾

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

x spr ing (springe) x helpdesk x ▾

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
<input checked="" type="checkbox"/> <span>✓ Executed</span>	Compare values in IdM with values in system (compare-value-with-system-report)	10.09.2019 16:35:29	Administrator (admin)	<a href="#">xlsx</a> <a href="#">json</a>	4d404b5

1 - 1 of 1 records

- 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**

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Script definitions

+ Add

Filter

Cancel filter

Filter

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

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- 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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