

1.13. CSV metadata import

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1.13. CSV metadata import

DHIS2 supports import of metadata in the CSV format. Columns which are not required can be omitted in the CSV file, but the order will be affected. If you would like to specify columns which appear late in the order but not specify columns which appear early in the order you can include empty columns (") for them. The following object types are supported:

- Data elements
- Data element groups
- Category options
- Category option groups
- Organisation units
- Organisation unit groups
- Validation rules
- Translations
- Option sets

The formats for the currently supported object types for CSV import are listed in the following sections.

1.13.1. Data elements

Table 1.16. Data Element CSV Format

Column	Required	Value (default first)	Description
Name	Yes		Name. Max 230 char. Unique.
UID	No	UID	Stable identifier. Exactly 11 alpha-numeric characters, beginning with a character. Will be

Column	Required	Value (default first)	Description
			generated by system if not specified.
Code	No		Stable code. Max 50 char.
Short name	No	50 first char of name	Will fall back to first 50 characters of name if unspecified. Max 50 char. Unique.
Description	No		Free text description.
Form name	No		Max 230 char.
Domain type	No	AGGREGATE TRACKER	Domain type for data element, can be aggregate or tracker. Max 16 char.
Value type	No	INTEGER NUMBER UNIT_INTERVAL PERCENTAGE INTEGER_POSITIVE INTEGER_NEGATIVE INTEGER_ZERO_OR_POSITIVE FILE_RESOURCE COORDINATE TEXT LONG_TEXT LETTER PHONE_NUMBER EMAIL BOOLEAN TRUE_ONLY DATE DATETIME	Value type. Max 16 char.
Aggregation operator	No	SUM AVERAGE AVERAGE_SUM_ORG_UNIT COUNT STDDEV VARIANCE MIN MAX NONE	Operator indicating how to aggregate data in the time dimension. Max 16 char.
Category combination UID	No	UID	UID of category combination. Will default to default category combination if not specified.
Url	No		URL to data element resource. Max 255 char.

Column	Required	Value (default first)	Description
Zero is significant	No	false true	Indicates whether zero values will be stored for this data element.
Option set	No	UID	UID of option set to use for data.
Comment option set	No	UID	UID of option set to use for comments.

An example of a CSV file for data elements can be seen below. The first row will always be ignored. Note how you can skip columns and rely on default values to be used by the system. You can also skip columns which you do not use which appear to the right of the ones

```
name,uid,code,shortname,description
"Women participated in skill development training",,"D0001","Women participated development training"
"Women participated in community organizations",,"D0002","Women participated community organizations"
```

1.13.2. Organisation units

Table 1.17. Organisation Unit CSV Format

Column	Required	Value (default first)	Description
Name	Yes		Name. Max 230 characters. Unique.
UID	No	UID	Stable identifier. Max 11 char. Will be generated by system if not specified.
Code	No		Stable code. Max 50 char.
Parent UID	No	UID	UID of parent organisation unit.
Short name	No	50 first char of name	Will fall back to first 50 characters of name if unspecified. Max 50 characters. Unique.
Description	No		Free text description.
UUID	No		UUID. Max 36 char.

Column	Required	Value (default first)	Description
Opening date	No	1970-01-01	Opening date of organisation unit in YYYY-MM-DD format.
Closed date	No		Closed date of organisation unit in YYYY-MM-DD format, skip if currently open.
Comment	No		Free text comment for organisation unit.
Feature type	No	NONE MULTI_POLYGON POLYGON POINT SYMBOL	Geospatial feature type.
Coordinates	No		Coordinates used for geospatial analysis in Geo JSON format.
URL	No		URL to organisation unit resource. Max 255 char.
Contact person	No		Contact person for organisation unit. Max 255 char.
Address	No		Address for organisation unit. Max 255 char.
Email	No		Email for organisation unit. Max 150 char.
Phone number	No		Phone number for organisation unit. Max 150 char.

A minimal example for importing organisation units with a parent unit looks like this:

```
name,uid,code,parent
"West province",,"WESTP","ImspTQPwCqd"
"East province",,"EASTP","ImspTQPwCqd"
```

1.13.3. Validation rules

Table 1.18. Validation Rule CSV Format

Column	Required	Value (default first)	Description
Name	Yes		Name. Max 230

Column	Required	Value (default first)	Description
			characters. Unique.
UID	No	UID	Stable identifier. Max 11 char. Will be generated by system if not specified.
Code	No		Stable code. Max 50
Description	No		Free text description.
Instruction	No		Free text instruction.
Importance	No	MEDIUM HIGH LOW	
Rule type	No	VALIDATION SURVEILLANCE	
Operator	No	equal_to not_equal_to greater_than greater_than_or_equal_to less_than less_than_or_equal_to compulsory_pair	
Period type	No	Monthly Daily Weekly Quarterly SixMontly Yearly	
Left side expression	Yes		Mathematical formula based on data element and option combo UIDs.
Left side expression description	Yes		Free text.
Left side null if blank	No	false true	Boolean.
Right side expression	Yes		Mathematical formula based on data element and option combo UIDs.
Right side expression description	Yes		Free text.
Right side null if blank	No	false true	Boolean.

1.13.4. Option sets

Table 1.19. Option Set CSV Format

Column	Required	Value (default first)	Description
OptionSetName	Yes		Name. Max 230 characters. Unique. Should be repeated for each option.
OptionSetUID	No	UID	Stable identifier. Max 11 char. Will be generated by system if not specified. Should be repeated for each option.
OptionSetCode	No		Stable code. Max 50 char. Should be repeated for each option.
OptionName	Yes		Option name. Max 230 characters.
OptionUID	No	UID	Stable identifier. Max 11 char. Will be generated by system if not specified.
OptionCode	Yes		Stable code. Max 50 char.

The format for option sets is special. The three first values represent an option set. The three last values represent an option. The first three values representing the option set should be repeated for each option.

```
optionsetname,optionsetuid,optionsetcode,optionname,optionuid,optioncode
"Color",,"COLOR","Blue",,"BLUE"
"Color",,"COLOR","Green",,"GREEN"
"Color",,"COLOR","Yellow",,"YELLOW"
"Sex",,"Male",,"MALE"
"Sex",,"Female",,"FEMALE"
"Sex",,"Uknown",,"UNKNOWN"
"Result",,"High",,"HIGH"
"Result",,"Medium",,"MEDIUM"
"Result",,"Low",,"LOW"
"Impact","cJ82jd8sd32","IMPACT","Great",,"GREAT"
"Impact","cJ82jd8sd32","IMPACT","Medium",,"MEDIUM"
"Impact","cJ82jd8sd32","IMPACT","Poor",,"POOR"
```

1.13.5. Other objects

Table 1.20. Data Element Group, Category Option, Category Option Group, Organisation Unit Group CSV Format

Column	Required	Value (default first)	Description
Name	Yes		Name. Max 230 characters. Unique.
UID	No	UID	Stable identifier. Max 11 char. Will be generated by system if not specified.
Code	No		Stable code. Max 50 char.
Short name	No		Short name. Max 50 characters.

An example for category options looks like this:

```
name,uid,code,shortname
"Male",,"MALE"
"Female",,"FEMALE"
```

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