

## 8 Value mapping

### Overview

For a more “human” representation of received values, you can use value maps that contain the mapping between numeric values and string representations.

Value mappings can be used in both the Zabbix frontend and notifications sent by email/SMS/jabber etc.

For example, an item which has value '0' or '1' can use value mapping to represent the values in a human-readable form:

- '0' ⇒ 'Not Available'
- '1' ⇒ 'Available'

Or, a backup related value map could be:

- 'F' → 'Full'
- 'D' → 'Differential'
- 'I' → 'Incremental'

Thus, when [configuring items](#) you can use a value map to “humanize” the way an item value will be displayed. To do that, you refer to the name of a previously defined value map in the *Show value* field.

Value mapping can be used with items having *Numeric (unsigned)*, *Numeric (float)* and *Character* type of information.

Value mappings, starting with Zabbix 3.0, can be exported/imported, either separately, or with the respective template or host.

### Configuration

To define a value map:

- Go to: *Administration* → *General*
- Select *Value mapping* from the dropdown
- Click on *Create value map* (or on the name of an existing map)

\* Name

\* Mappings
 

Value		Mapped to
<input type="text" value="0"/>	⇒	<input type="text" value="Running"/>
<input type="text" value="1"/>	⇒	<input type="text" value="Paused"/>
<input type="text" value="2"/>	⇒	<input type="text" value="Start pending"/>
<input type="text" value="3"/>	⇒	<input type="text" value="Pause pending"/>
<input type="text" value="4"/>	⇒	<input type="text" value="Continue pending"/>
<input type="text" value="5"/>	⇒	<input type="text" value="Stop pending"/>
<input type="text" value="6"/>	⇒	<input type="text" value="Stopped"/>
<input type="text" value="7"/>	⇒	<input type="text" value="Unknown"/>
<input type="text" value="255"/>	⇒	<input type="text" value="No such service"/>

[Add](#)

Parameters of a value map:

Parameter	Description
<i>Name</i>	Unique name of a set of value mappings.
<i>Mappings</i>	Individual mappings - pairs of numeric values and their string representations.

All mandatory input fields are marked with a red asterisk.

To add a new individual mapping, click on *Add*.

### How this works

For example, one of the predefined agent items 'Ping to the server (TCP)' uses an existing value map called 'Service state' to display its values.

\* Name

\* Mappings

Value	Mapped to
<input type="text" value="0"/>	⇒ <input type="text" value="Down"/>
<input type="text" value="1"/>	⇒ <input type="text" value="Up"/>

[Add](#)

In the item [configuration form](#) you can see a reference to this value map in the *Show value* field:

Show value  [show value mappings](#)

So in *Monitoring* → *Latest data* the mapping is put to use to display 'Up' (with the raw value in parentheses).

<input type="checkbox"/> NAME	LAST CHECK	LAST VALUE
Zabbix agent (1 item)		
<input type="checkbox"/> Agent ping	2015-08-11 22:01:07	Up (1)

In the *Latest data* section displayed values are shortened to 20 symbols. If value mapping is used, this shortening is not applied to the mapped value, but only to the raw value separately (displayed in parenthesis).

A value being displayed in a human-readable form is also easier to understand when receiving notifications.

Without a predefined value map you would only get this:

<input type="checkbox"/> NAME	LAST CHECK	LAST VALUE
Zabbix agent (1 item)		
<input type="checkbox"/> Agent ping	2015-08-11 22:09:21	1

So in this case you would either have to guess what the '1' stands for or do a search of documentation to find out.

From: <https://www.zabbix.com/documentation/4.4/> - **Zabbix Documentation 4.4**

Permanent link: <https://www.zabbix.com/documentation/4.4/manual/config/items/mapping>

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