

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.

Before Zabbix 2.2 value mapping could only be used with items having a *Numeric (unsigned)* type of information. Starting with Zabbix 2.2, *Numeric (float)* and *Character* information types are also supported for value mapping.

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)

Value mapping

Name

Mappings	Value		Mapped to	
	<input style="width: 50px;" type="text" value="0"/>	⇒	<input style="width: 100px;" type="text" value="Running"/>	Remove
	<input style="width: 50px;" type="text" value="1"/>	⇒	<input style="width: 100px;" type="text" value="Paused"/>	Remove
	<input style="width: 50px;" type="text" value="2"/>	⇒	<input style="width: 100px;" type="text" value="Start pending"/>	Remove
	<input style="width: 50px;" type="text" value="3"/>	⇒	<input style="width: 100px;" type="text" value="Pause pending"/>	Remove
	<input style="width: 50px;" type="text" value="4"/>	⇒	<input style="width: 100px;" type="text" value="Continue pending"/>	Remove
	<input style="width: 50px;" type="text" value="5"/>	⇒	<input style="width: 100px;" type="text" value="Stop pending"/>	Remove
	<input style="width: 50px;" type="text" value="6"/>	⇒	<input style="width: 100px;" type="text" value="Stopped"/>	Remove
	<input style="width: 50px;" type="text" value="7"/>	⇒	<input style="width: 100px;" type="text" value="Unknown"/>	Remove
	<input style="width: 50px;" type="text" value="255"/>	⇒	<input style="width: 100px;" type="text" value="No such service"/>	Remove
Add				

Parameters of a value map:

Parameter	Description
<i>Name</i>	Unique name of a set of value mappings.
<i>Mapping</i>	Individual mappings - pairs of numeric values and their string representations.
<i>New mapping</i>	A single mapping for addition.

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.

Value mapping

Name

Mappings	Value		Mapped to	
	<input style="width: 50px;" type="text" value="0"/>	⇒	<input style="width: 100px;" type="text" value="Down"/>	Remove
	<input style="width: 50px;" type="text" value="1"/>	⇒	<input style="width: 100px;" type="text" value="Up"/>	Remove
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).

Ping to the server (TCP)	12 Jan 2012 09:52:35	Up (1)	-	Graph
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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:

Ping to the server (TCP)	12 Jan 2012 09:55:35	1	-	Graph
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So in this case you would either have to guess what the '1' stands for or do a search of documentation to find out.

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<https://www.zabbix.com/documentation/2.2/> - **Zabbix Documentation 2.2**

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