

## 4 Using macros in messages

### Overview

In message subjects and message text you can use macros for more efficient problem reporting.

A [full list of macros](#) supported by Zabbix is available.

### Examples

Examples here illustrate how you can use macros in messages.

#### Example 1

Message subject:

```
Problem: {TRIGGER.NAME}
```

When you receive the message, the message subject will be replaced by something like:

```
Problem: Processor load is too high on Zabbix server
```

#### Example 2

Message:

```
Processor load is: {zabbix.zabbix.com:system.cpu.load[,avg1].last()}
```

When you receive the message, the message will be replaced by something like:

```
Processor load is: 1.45
```

#### Example 3

Message:

```
Latest value: {{HOST.HOST}}:{{ITEM.KEY}}.last()
MAX for 15 minutes: {{HOST.HOST}}:{{ITEM.KEY}}.max(900)
MIN for 15 minutes: {{HOST.HOST}}:{{ITEM.KEY}}.min(900)
```

When you receive the message, the message will be replaced by something like:

```
Latest value: 1.45
```

```
MAX for 15 minutes: 2.33
MIN for 15 minutes: 1.01
```

#### Example 4

Message:

```
http://<server_ip_or_name>/zabbix/events.php?triggerid={TRIGGER.ID}&filter_s
et=1
```

When you receive the message, it will contain a link to all events of the problem trigger.

#### Example 5

Informing about values from several hosts in a trigger expression.

Message:

```
Problem name: {TRIGGER.NAME}
Trigger expression: {TRIGGER.EXPRESSION}

1. Item value on {HOST.NAME1}: {ITEM.VALUE1} ({ITEM.NAME1})
2. Item value on {HOST.NAME2}: {ITEM.VALUE2} ({ITEM.NAME2})
```

When you receive the message, the message will be replaced by something like:

```
Problem name: Processor load is too high on a local host
Trigger expression: {Myhost:system.cpu.load[percpu,avg1].last()}>5 |
{Myotherhost:system.cpu.load[percpu,avg1].last()}>5

1. Item value on Myhost: 0.83 (Processor load (1 min average per core))
2. Item value on Myotherhost: 5.125 (Processor load (1 min average per
core))
```

#### Example 6

Receiving details of both the problem event and recovery event in a [recovery](#) message:

Message:

```
Problem:

Event ID: {EVENT.ID}
Event value: {EVENT.VALUE}
Event status: {EVENT.STATUS}
```

```
Event time: {EVENT.TIME}
Event date: {EVENT.DATE}
Event age: {EVENT.AGE}
Event acknowledgement: {EVENT.ACK.STATUS}
Event update history: {EVENT.UPDATE.HISTORY}
```

#### Recovery:

```
Event ID: {EVENT.RECOVERY.ID}
Event value: {EVENT.RECOVERY.VALUE}
Event status: {EVENT.RECOVERY.STATUS}
Event time: {EVENT.RECOVERY.TIME}
Event date: {EVENT.RECOVERY.DATE}
```

When you receive the message, the macros will be replaced by something like:

#### Problem:

```
Event ID: 21874
Event value: 1
Event status: PROBLEM
Event time: 13:04:30
Event date: 2018.01.02
Event age: 5m
Event acknowledgement: Yes
Event update history: 2018.01.02 13:05:51 "John Smith (Admin)"
Actions: acknowledged.
```

#### Recovery:

```
Event ID: 21896
Event value: 0
Event status: OK
Event time: 13:10:07
Event date: 2018.01.02
```

Separate notification macros for the original problem event and recovery event are supported since Zabbix 2.2.0.

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