

ACC: Alternative to ITEM.LASTVALUE in Problem names

Summary

[ZBXNEXT-4792](#)

"On Zabbix Summit 18 it was explained that the view in Monitoring->Problems is no longer live generated, but at the first generation of an event, rendering ITEM.LASTVALUE1 useless as a live view.

We used this in the past to have a live view of HDD values, memory values, CPU load etc. "

We can't go back to allow rendering of ITEM.LASTVALUE1 in problem name, but we need to provide an alternative to users who used ITEM.LASTVALUE1 that way.

Zabbix Acceptance

1. Solution provided must be delivered in minor 4.0 release, so no DB changes.
2. New column called 'Last value' must be added into Problem view and Problem widget
 1. When viewing Problem view or Problem widget, this column must contain the following:
 1. If there is only one item used:
 1. {ITEM.LASTVALUE1}
 2. If there is more then one item in trigger expression:
 1. {ITEM.LASTVALUE1}, {ITEM.LASTVALUEX}, {ITEM.LASTVALUEY}
Where X, Y...- index of the next not repeated item in the trigger expression
 3. Items values older than ZBX_HISTORY_PERIOD (include/defines.inc.php) should not be shown, use '*UNKNOWN*' instead
 2. On each item value click: a tooltip will be displayed with an item name, value and timestamp of this item. This tooltip should also contain a link to simple graph or history (for text items).
 3. Column width must be kept as short as possible
 4. It must be possible to turn visibility of this column on or off(default) in Problem view/widget

Business Use Cases

1. Items' actual values can be seen in all modes including kiosk in NOC without mouse
2. Provide additional quick links for viewing items' history and graphs

Trigger examples are below:

Use case	3.4 Problem name	Problem name	Last value	Trigger expression
1) Single item	CPU utilization is too high (99%)	CPU utilization is too high	99%	{host:cpu.avg(5m)}>80
2) Simple case with 1 item used in 2 macros	Temperature is out of range (-10.4C)	Temperature is out of range	-10.4C	{host:temp.avg(5m)}>30 or {host:temp.avg(5m)}<10
3) Simple case with 2 items used in 4 macros	Temperature is out of range on site (Sensor1: -10.4C, Sensor2: -7.3C)	Temperature is out of range on site	-10.4C, -7.3C	((sensor1:temp.avg(5m))>30 or {sensor1:temp.avg(5m)}<10) and ({sensor2:temp.avg(5m)}>30 or {sensor2:temp.avg(5m)}<10)
4)	Not much space left on /home (100M of 200G)	Not much space left on /home	100M, 200G	{host:disk.free[/home].last()}<1G and {host:disk.total[/home].last()}>0

5)	Power outage at site	Power outage at site	noVoltage(1), notConnected(2), 80%, 15C, 45%	({host1:input.1.last()}=1 or {host2:input.1.last()}=1) and {ups1:battery_left.last()}>0 and {temp_sensor:temp.last()}>0 and {temp_sensor:humid.last()}>0
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