Summary

Zabbix has a reasonably good selection of dashboard widgets for a variety of use cases, yet there is no such basic dashboard building block as a single item widget. We must fix this.

Use cases

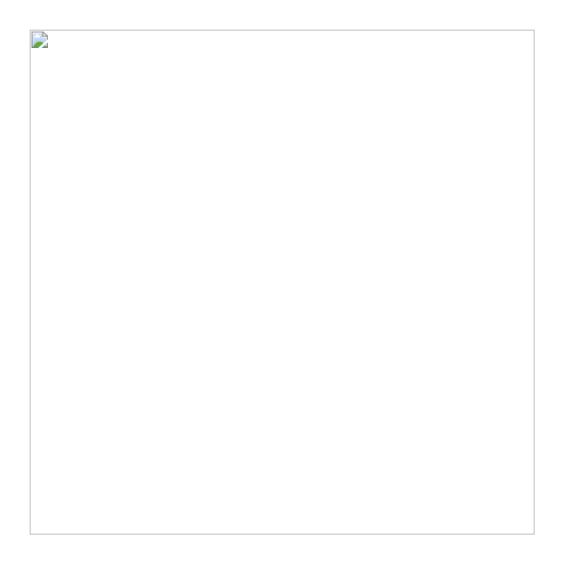
1. I want to display a single value for one of my items prominently in a dashboard.

Zabbix acceptance

- 1. Single item widget (the widget) must be created
 - a. It must work in global and templated dashboards
 - b. It must display one or more fields:
 - i. Last item value (with value mapping applied)
 - 1. Types: numeric, character and text
 - a. Strings must be shown in one line and truncated if needed
 - ii. Units
 - 1. from the item configuration but can be overridden (see below)
 - iii. Description
 - 1. item name from the item configuration but can be overridden (see below)
 - 2. multiline descriptions must be supported
 - iv. Time of value (history.clock)
 - v. Change indicator
 - 1. Arrows ↑ (green) and ↓ (red) for numeric types
 - 2. Arrow \(\psi\) (green) for value-mapped values and string types
 - 3. Calculated between last and previous values in history
 - c. Click on the Value must lead to
 - i. adhoc graph for numeric types
 - ii. Latest data for string types
 - d. It must provide configuration parameters:
 - i. Item
 - ii. Refresh interval (no refresh, 10 seconds, etc)
 - iii. Description
 - 1. overrides item name, supports {HOST.*}, {ITEM.*} and {INVENTORY.*} macros
 - a. can use hint with ? for supported macros
 - 2. configurable font size (including auto), color (optional), position, alignment (e.g. bottom, horizontally centered)
 - 3. visibility (on/off)
 - iv. Value
 - 1. configurable font size (including auto), color (optional), position, alignment
 - a. configurable font size for a fractional part of numeric float
 - b. font size can be specified in % from the overall widget height
 - i. Example: value with font size 25% occupies 1/4 of vertical widget space
 - 2. configurable number of decimal places for numeric float
 - 3. visibility (on/off)
 - v. Units
 - 1. overrides item units
 - 2. configurable font size (including auto), color (optional), position (relative to value), alignment a. font size can be in % (see font size for Value)
 - vi. Time
 - 1. configurable font size (including auto), color (optional), position, alignment
 - 2. visibility (on/off)
 - vii. Change indicator (on/off)
 - viii. Background color (optional)

Sample widget with fields explained:

More examples:	



Nonfunctional requirements

1. N/A

Decisions made

- 1. No multiple values and no aggregations at this time.
- 2. Log item type not supported.
- 3. Services not supported.
- 4. No support for {host:key.func(param)} in Description for now.
- 5. \$\pmust be green.