

## Summary

Screen reader user want's to know when and how dynamically changed element is updated without specifically focusing that part of page. In order to achieve this, we will add parameter `{{aria-live}}` to such elements.

## Acceptance criteria

1. Changes in content that is periodically updated by AJAX should be read by screen reader. Such changes should be descriptive enough to understand their meaning.
2. User should be informed about successful operation, if result of operation is visible in currently inactive element.

## Design Decisions made

1. [Valdis Murzins](#), [Andzs Auders](#): We will not add `aria-live` on tables, because in current implementation, when whole table is reloaded on update, it is impossible to read only changes. Reading whole table each minute would be unreasonable for screen reader users.

## Use cases

### Case 1: New data added via "Add" button

Scenario (how to achieve it?):

1. Go to Configuration → Actions → Create action
2. Setup new condition
3. Press "Add"
4. Observed: New condition is added in Conditionsfield as new entry. Screen reader reads the new entry to user.

### Case 2: Number of selected rows

1. Go to Monitoring → Problems
2. Click on checkbox in problems table
3. Observed: number of selected entries is increased. Screen reader reads number of selected entries.

## What's affected

- UI

## UI

Elements that will have `aria-livezone`:

1. Table that contains data that is added by "Add" button.

Conditions

Label	Name	Action
A	Maintenance status not in <i>maintenance</i>	<a href="#">Remove</a>
B	Trigger name like <i>Trigger</i>	<a href="#">Remove</a>

New condition

Trigger name  like

[Add](#)

2. Number of selected elements in table

Time ▲	Severity
2017-11-07 12:19:15	<input checked="" type="checkbox"/> Not classified
Yesterday	
2017-11-08 16:37:55	<input type="checkbox"/> Not classified

1 selected Bulk acknowledge

3. Timeline full date

2017-10-22 19:19 - 2017-11-09 19:19 (now!)

18d fixed

4. All success messages as aria-live="polite". All error messages as role="alert".

Add widget

Invalid parameter "Graph": cannot be empty.

Type: Graph

Name: default

Refresh interval: Default (1 minute)

Source: Graph Simple graph

Graph:  Select

Dynamic item:

Add Cancel

Elements without aria-live, but with other interactions:

1. Visible/hidden blocks (including filters)

Filter ▲

Name  DNS  IP  Port

Apply Reset

Although these zones will not be aria-live, we will add/remove aria-hidden on the visibly hidden content.

2. Added / removed rows in form

Filter ▲

Host inventory

Type

Type

Type

Tags

tag    value

After adding new field in form, set focus on it to be able to input data in it right away.

Elements that will **not** have aria-livezone:

1. Content of widgets

**System status** ...

Host group ▲ Disaster High Average Warning Information Not classified

My group	1	2	2	2	2	2
Zabbix servers						

Updated: 18:31:41

2. Content of problems

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
2017-10-23 16:04:53	Information	2017-10-26 15:56:13	RESOLVED		My host	ValueItemTrigger15	2d 23h 51m	Yes 1		tag1: 111 tag2: 222
2017-10-26 15:57:13	Information		PROBLEM		My host	ValueItemTrigger15	14d 3h 39m	No		tag1: 111 tag2: 222
2017-11-06 18:20:45	Not classified		PROBLEM		My host.2	ValueItemTrigger15	3d 15m	No		tag1: 111 tag2: 222

3. Content of screens

4. Configuration window with tabs

**Hosts**

Host Templates IPMI Macros Host inventory Encryption

Host name

Visible name

Groups In groups

5. Disabled form fields

Minimum trigger severity

Age less than   days

6. Replacement of form fields, when some options are selected.

**Edit widget**



Type



Name

Refresh interval

Time type



Apply

Cancel