

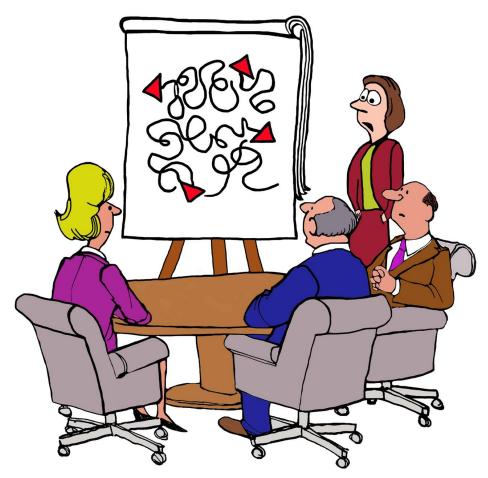




Roadmap Plans and Ideas for the future

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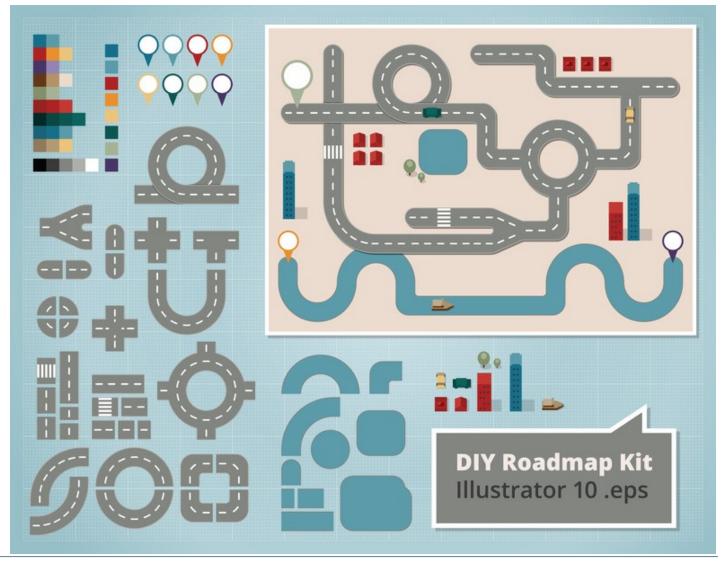
Our Roadmap



"The way forward is clear."



Our Roadmap (2nd try)





Our roadmap is created by you

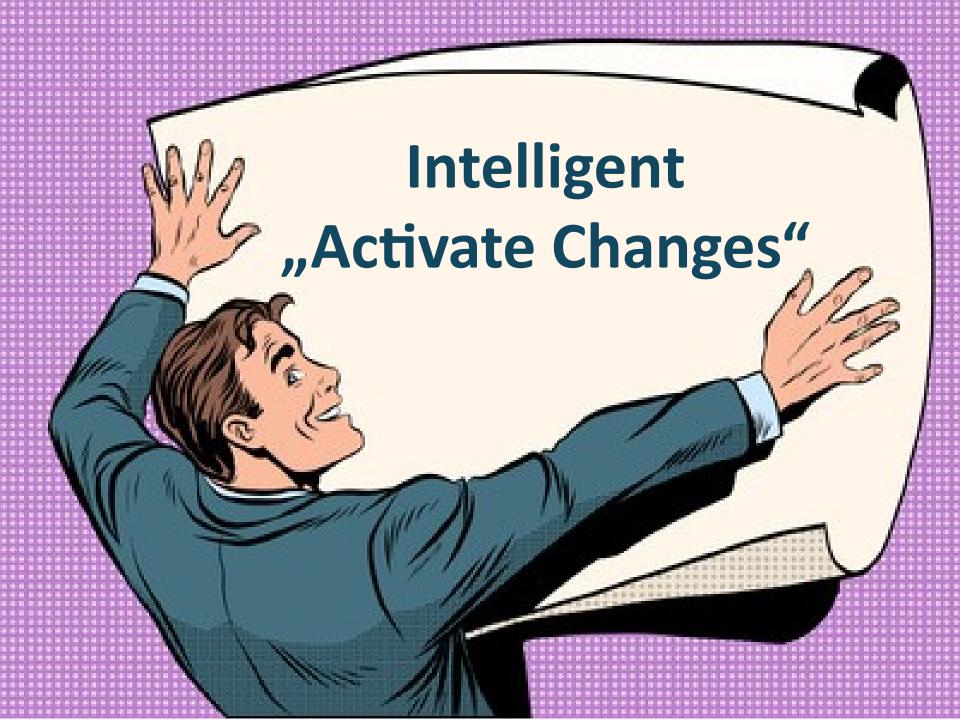
Actual demands of customers have precedence over our own bright ideas!







Already commissioned THIS WILL COME FOR SURE



Current problem with "Activate Changes"

- You cannot activate just your changes
- You cannot undo just your changes
- You cannot undo selected changes anyway



Another problem with changes

- Some things get immediately active, some not
- Local site behaves differently
- Restart of monitoring implicitely activates some changes



Why **do** we need to activate changes in the first place??



Advantages of "Activate Changes"

- Control the exact time when a set of changes gets active
- Chance to review changes and maybe roll back



New concept

- Selected changes can be activated while keeping others pending
- Selected changes can be rolled back while keeping others



Sounds easy?



Example 1:

- 1. Create a folder
- 2. Create a host in that folder
- 3. Roll back Change 1

→ Changes depend on each other!



Example 2:

- 1. Delete host myserver123
- 2. Create (new) host myserver123
- 3. Rollback change 1

→ Rollback of 1 would create invalid configuration with duplicate host!



Example 3:

- 1. Delete a rule
- 2. Roll back change 1

→ Changes need knowledge about the previous situation



Example 4:

- 1. Delete host myserver123
- 2. Create (new) host myserver123
- 3. Rollback change 1

→ Rollback of 1 would create invalid configuration with duplicate host!



Implementation (1)

- Each change is an (intelligent) object that can apply / rollback itself
- And it can be saved / loaded on disk.
- Changes know about dependencies to other changes



Implementation (2)

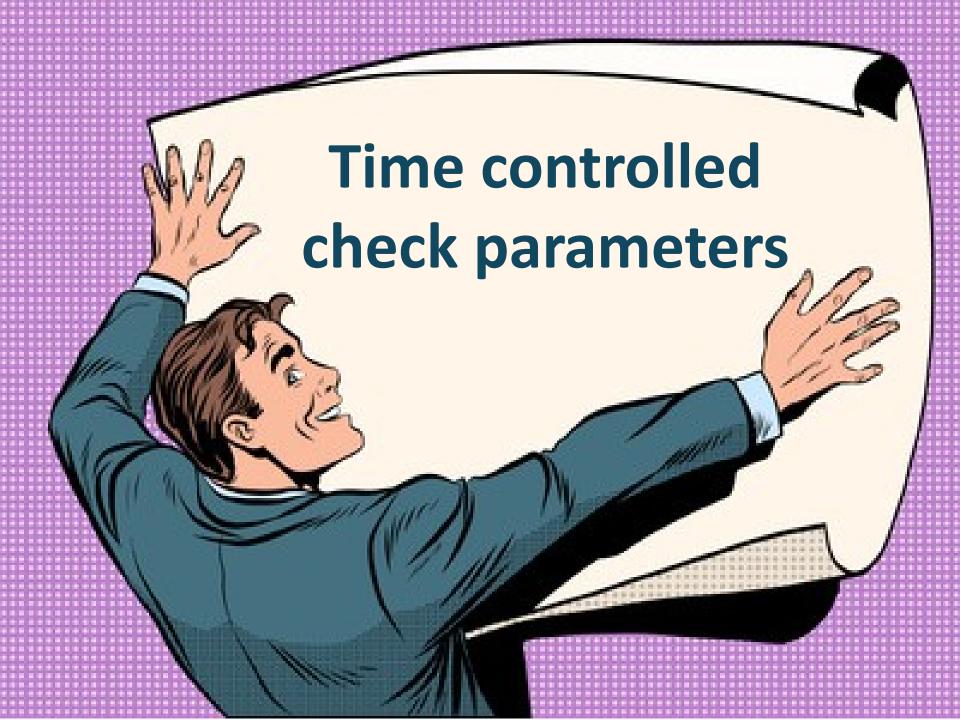
 WATO will be reorganized interally so that everything it does is such a change.



WATO Web-API is the lucky guy

Due to this formalization of changes
 every WATO operation will be available
 via the API





Check parameters

- Changing parameters based on time
- Can be used with all Check_MK checks
 - → "Parameters for discovered services"
- Transparent for checks
 - → Check gets the current paramters



How to specify the time?

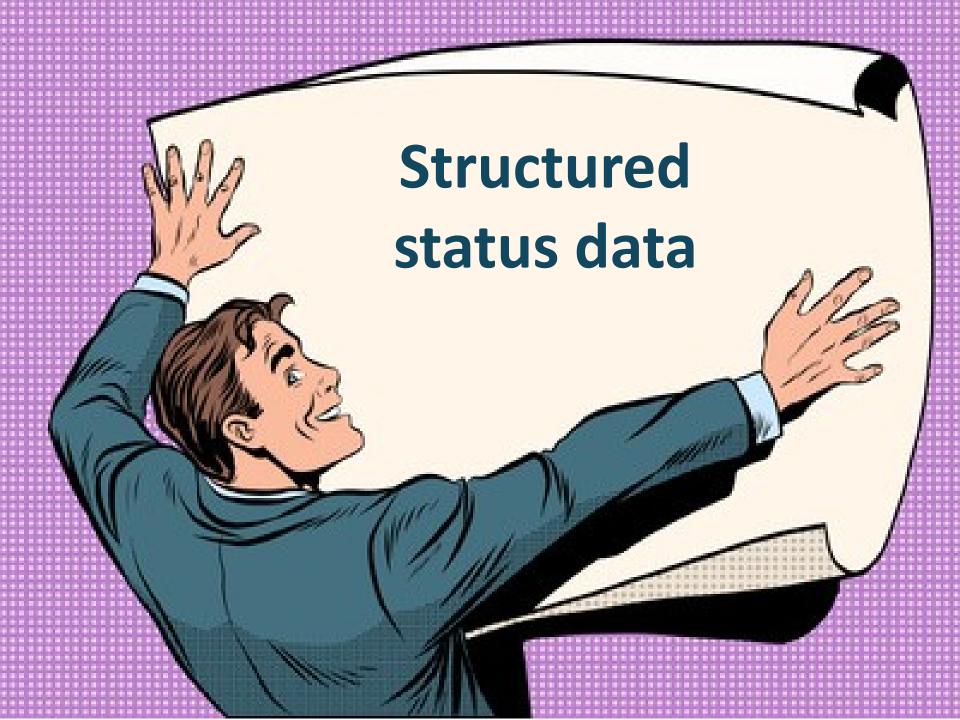
- We are using time periods
- Problem:

Only admins can configure time periods

Solution:

Make them configurable by users





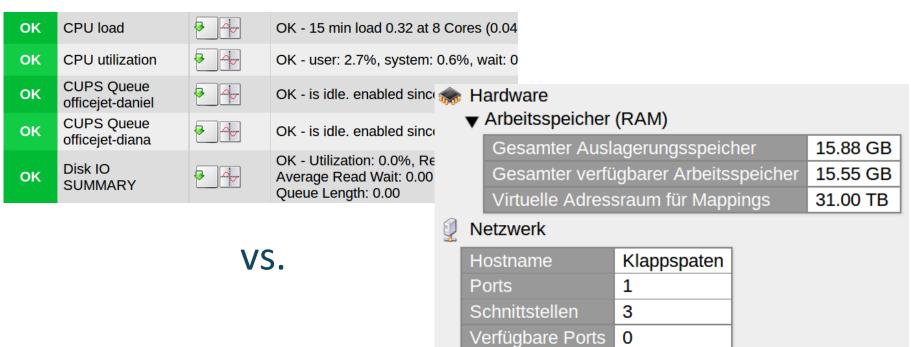
Make checks produce more useful data

- We caputre a lot of data
- Why not make it better usable?
- Example:
 - Export current database usage together
 with database inventory information



Status Quo

- Checks: Status code, text, perfdata
- HW/SW-Inventory: Structured data





Schnittstellen

Extend HW/SW inventory?

- Status data is captured often
- Data can change each interval

→ Conflict with HW/SW inventory history (differential mode)



How to?

- New check function "data_function"
 - Extends a tree with own data

- Status GUI: Merges both trees
- Export merges data optionally







Plans

WE PROBABLY WILL DO THIS



Make ticketing less painfull

- Takes time: Collecting needed information
 - Meta data (OS, Check_MK version, ...)
 - Mandatory diagnose information

 Could be improved with some kind of guided ticket creation



GUI Integration

- Add a ticket creation module
- Dynamic form with mandatory fields based on categories
- Components: Core, GUI, Event Console, ...
- Categories: Bug, Configuration problem,
 Performance, Development



Example: Check development request

- Ask all common questions
 - What to monitor?
 - How to get data?
 - Provide MIBs
 - WATO configuration needed?
 - Metrics needed?
 - **–** ...?





Check_MK Check Helper Memory

- Get deeper understanding
 - Need real environments for this
 - Measure
- Possibly change helper model



Improve Livestatus Proxy scaling

- We need more than 300 sites
- Limits:
 - Number of file descriptors, Python GIL
- Change to multi process architecture



Apache / GUI



- A lot of load is caused by inactive sessions (hidden tabs / windows)
- Disable update while inactive
- Restart the update again when focused

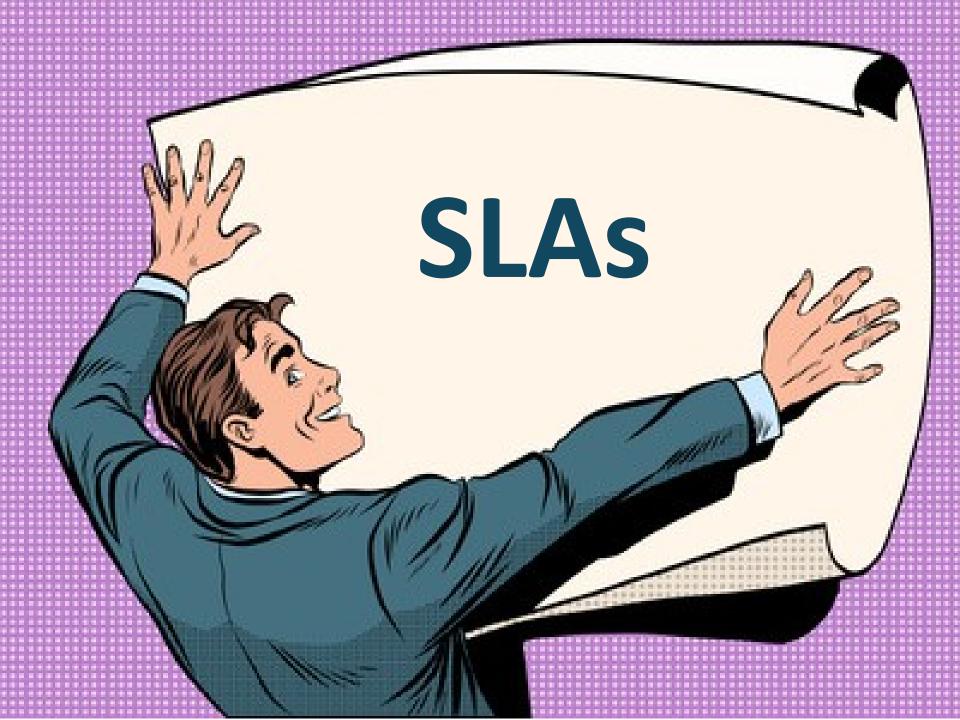






Ideas and Dreams

MIGHT OR MIGHT NOT COME TRUE



Current functionality:

Host	Service	OK	WARN	CRIT	UNKNOWN
Lastrechner	Filesystem /	83.52%	16.30%	0.16%	0.00%
Lastrechner	Filesystem /bauwelt	95.15%	0.87%	3.97%	0.00%
Lastrechner	Filesystem /chroots	99.44%	0.18%	0.37%	0.00%
Lastrechner	Filesystem /boot	99.99%	0.00%	0.00%	0.00%
Lastrechner	Filesystem /opt/omd	95.61%	4.15%	0.22%	0.00%
Summary		94.74%	4.30%	0.94%	0.00%



- Precise analysis of actual availability
- Many ways to tune computation
- Also for BI aggregations
- Simplistic "SLA"-Check, just coloring cells according to percentages



Real SLA can be much more complex.



Idea - step 1:

- New GUI module for specifying more complex SLAs
 - Based on different timeperiods
 - Also number, length of outages
 - expandable in a modular way
- Edited by users just like views and reports.



Idea - step 2:

- Assign these SLAs to hosts and services via rules
- Assign to BI aggregates via BI module



Idea - step 3:

- View have new optional columns for showing SLA status
- Not only yes / no, but also amount of (under-)fullfillment
- Also available in the current time period.



Idea - step 4:

- Actual SLA-Monitoring
- E.g. gets you warned if your allowed downtime for the current period is running low.
- Helps you fullfulling your SLAs!
- Helps you planning downtimes.







Thanks for listening!

YOUR FEEDBACK IS WELCOME