Information Model Open Issues

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Overlapping schedules/actions

- Issue:
  - Better document the handling of overlapping schedules and actions

- Proposal:
  - Add text that says the execution of actions or schedules is skipped if previous invocations are still running (we already have counters for this but there probably needs to be some additional text to go somewhere)

Streamline the reporting model

- Issue
  - The reporting model may need more attention; perhaps things can be streamlined and also be made more efficient

- Proposal
  - Implementation experience will help to work this out, postpone this until we have more experience and we know for sure optimizations are needed
  - Reconsider this for LMAP version 2.0

Conflict list should indicate schedule and action and task

- Issue
  - The conflict list is currently a list of task names
  - The conflict list does not identify the schedule and action that was overlapping

- Proposal
  - Make the conflict list a list of (schedule name, action name, task name) tuples

ma-report-result-status missing

- Issue
  - The ma-report-result-obj is missing the status code indicating whether the action (that is the corresponding task) was successfully executed or why it failed

- Proposal
  - Add ma-report-result-status to the ma-report-result-obj

Result tables and registry references

- Issue
  - The ma-report-result-obj allows multiple result tables and multiple metrics but the association of metrics to tables is not clear

- Proposal
  - Either define that each table is associated with exactly one metric and then the i-th metric applies to the i-th result table
  - Introduce a new structure that binds 0 or more metrics to a result table

Remove ma-task-suppress-by-default

- Issue:
  - The tagging mechanism makes it easy to define a default suppression policy
  - The special ma-task-obj flag is not strictly needed anymore

- Proposal:
  - Remove ma-task-suppress-by-default, tasks can be easily tagged to emulate ma-task-suppress-by-default

Storage usage reporting and control

- Issue:
  - Actions that feed results into other schedules occupy storage space and storage space is a crucial resource to monitor (and control)
- Proposal:
  - Report how much storage is allocated to schedules and actions
  - Ideally, there would be controls that can disable schedules or actions (or throw events to start specific suppressions) if storage is getting tight
  - Alternatively, there could be a threshold that once crossed causes old data to be deleted

Configuration vs. instruction: ma-task-obj

- Issue
  - Configuring a task (ma-task-obj) can have security implications (not all tasks are always welcome)
- Proposal
  - It seems that ma-task-obj should only be configured by a system that has the access rights to setup the measurement agent
  - The controller should read the configured tasks and then only install schedules (with actions), suppressions, and events
  - Changing ma-task-obj is not part of an instruction but only part of the configuration