

# MC Quality Trail — validator\_agent + agent\_output write semantics (Patch #10036)

## Summary

Patch bundle MC #10036 (landed 2026-04-29) backfills two missing quality-trail columns in Mission Control. Prior to this patch, 0 of 6,529 tasks had `validator_agent` populated, making audit and quality trending impossible. The patch adds `--validator <slug>` and `--quality <int>` flags to `mc.js ready`, and makes `mc.js done` write the task outcome to `agent_output` when that column is NULL. All writes use no-clobber semantics so existing data is never overwritten. Validated by Proveo (MC #10038, 8/8 PASS, GLOBAL\_VERDICT: PASS).

## New CLI flags — mc.js ready

Flag	Type	Validation	Effect
<code>--validator &lt;slug&gt;</code>	string	regex <code>[a-z][a-z0-9_-]{1,40}</code>	Writes <code>validator_agent</code> + <code>validation_timestamp = datetime('now')</code>
<code>--quality &lt;int&gt;</code>	integer	0-10 inclusive	Writes <code>quality_score</code>

## No-clobber semantics

Both flags are strictly optional. If a flag is absent or empty the corresponding column is **not touched** — existing values are preserved. This applies to both commands:

- **mc.js ready:** if `--validator` is omitted, `validator_agent` and `validation_timestamp` remain unchanged. If `--quality` is omitted, `quality_score` remains unchanged.
- **mc.js done:** the outcome string is written to `agent_output` only when `agent_output IS NULL`. If the column already has a value the done-outcome is preserved in `task_history` only and a log line confirms: `[mc.js done] agent_output already set – outcome preserved in history only`.

# Postflight derivation — GLOBAL\_VERDICT to quality score

The task-postflight skill (SKILL.md Section 6) derives the `--quality` integer from the GLOBAL\_VERDICT emitted by the validator agent:

GLOBAL_VERDICT	--quality value
PASS	10
PARTIAL	5
FAIL	0

## Example invocation

```
node ~/system/tools/mc.js ready 9999 "validation passed" --validator proveo --quality 10
```

This single command marks the task ready, records the validator identity, timestamps the validation, and writes the quality score in one atomic call.

## Audit query

To find tasks closed after the patch date that are still missing a validator (quality trail gap):

```
SELECT id, title, status, completed_at FROM tasks  
WHERE status='done' AND validator_agent IS NULL AND completed_at > '2026-04-29';
```

## Cross-references

- **MC #10036** — master patch task (implementation)
- **MC #10038** — Proveo validation subtask (8/8 PASS, GLOBAL\_VERDICT: PASS)
- **MC #10039** — this documentation subtask (Skillforge)
- **task-postflight SKILL.md Section 6** — /Users/makinja/.claude/skills/task-postflight/SKILL.md lines 251–320 — canonical derivation table and flag usage examples

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