Episode 062 Artifact

# How OS Agent Stores & Sorts Memory

A deeper dive into the Agent OS memory layer

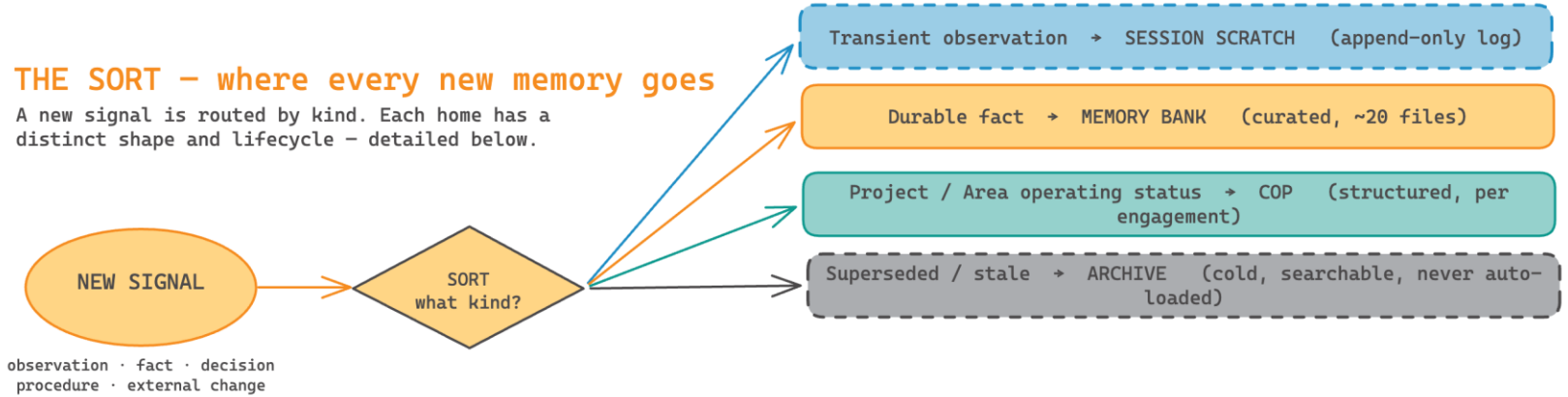


# HOW OS AGENT STORES & SORTS MEMORY

Four homes, two anatomies, one routing rule — a deeper dive into the Agent OS memory layer

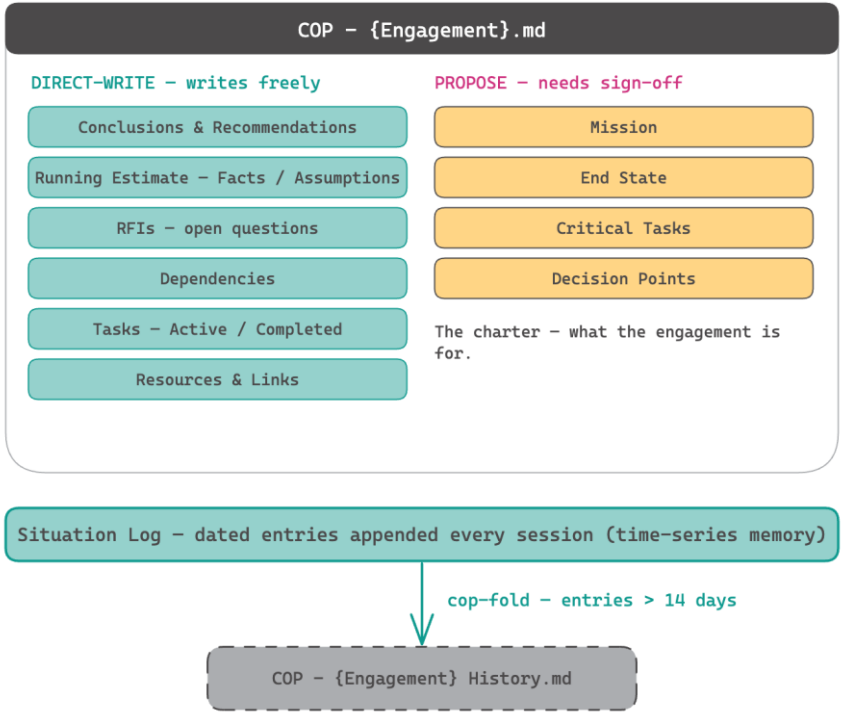
## THE SORT — where every new memory goes

A new signal is routed by kind. Each home has a distinct shape and lifecycle — detailed below.



# ANATOMY OF A COP

One per Project & Area — the shared operating picture. Sections split by write permission.



# THE OTHER THREE HOMES

Ephemeral log · curated durable facts · cold storage — and the promotion path that connects them.

## SESSION SCRATCH

50 Log/Session Scratch/session-scratch.md

- ACTION — what the agent did
- GAP — information that was missing
- PATTERN — recurring behavior
- FRICTION — what slowed things down

Appended every session · never edited, only added to.

promote
(curate weekly)

## MEMORY BANK

~/.claude/projects/<vault>/memory/

MEMORY.md — one-line index, loaded every session

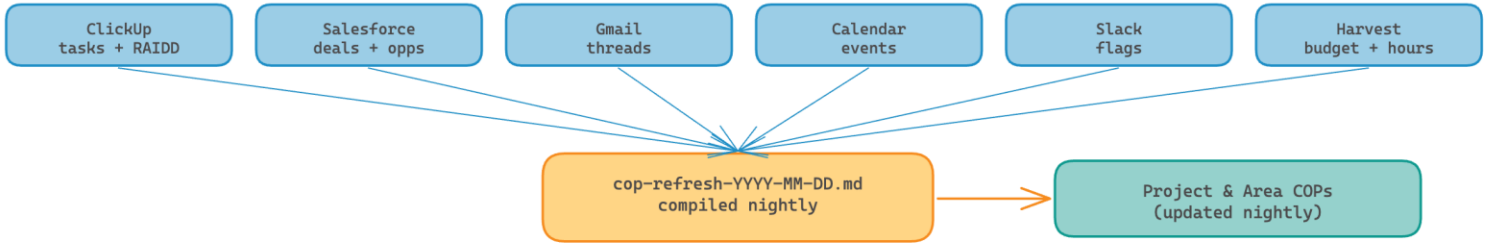
| | |
|---|---|
| user<br>profile | feedback<br>cop-style |
| project<br>ai-agent-labs | reference<br>clickup-structure |

```
--- name: cop-style · type: feedback ---
Exec-level synthesis preferred; lead
with C&R, risk-forward.  **Why / How to apply**
```

≤ ~20 files · /memory-curate weekly: promote, prune, update.

## EXTERNAL STATE — the memory the agent doesn't own

Live systems the agent reads & writes via skills. Each night, cop-refresh pulls their state into one aggregate.




One nightly aggregate replaces 6+ live queries per session — this is what keeps the agent fast.

### EXTERNALIZED MEMORY

→ WRITE: skills push state out — ClickUp tasks & RAIDD, Salesforce activity, Slack posts, Harvest time (see the clickup example above).

← READ: cop-refresh pulls it all back each night into one aggregate, which updates every COP.

The vault stays the source of truth; external systems hold the shared, durable state of the work itself.

Every memory has a home, a shape, and a lifecycle. Sorting is the discipline that keeps context usable.

# Thanks for watching.

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