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IntentGate SIEM Runbook — Splunk

Audience. SOC analysts and Splunk admins operating IntentGate in production or evaluating the lab. This runbook is the canonical reference for the audit-event schema, the queries you'll actually run, and the HEC configuration that puts events into your index.

Gateway audit schema: v6 (see `schema_version` field on every event). **Document version:** 1.0 (May 2026).

1. What you're getting

IntentGate emits one structured audit event for every `tools/call` request that traverses the gateway. The event records the gateway's verdict (`allow / block / escalate`), which check produced it (`capability, intent, policy, budget, or upstream forward`), the agent that made the call, the tool it tried to invoke, and enough correlation metadata to reconstruct an incident end-to-end.

The shape is OCSF-lite: a flat JSON document with `lowercase_underscore` field names so it merges cleanly into Splunk CIM, Elastic Common Schema, or full OCSF without a custom mapper. The gateway ships events over Splunk's HTTP Event Collector (HEC) in newline-delimited batches.

Field names are stable across minor versions. New fields are added at the end with `omitempty`, so existing dashboards and saved searches continue to work after a gateway upgrade.

2. Field schema

Every event arrives in Splunk wrapped in a standard HEC envelope (`time, host, source, source-type, index`) with the gateway's payload nested under the `event` key. Splunk's JSON source-type flattens this so you reference fields directly — `decision, tool, agent_id, etc.` — not `event.decision`.

Field	Type	Always present	Meaning
<code>ts</code>	RFC3339Nano string	yes	Event time in UTC. Splunk's <code>_time</code> is also populated from the HEC time field.
<code>event</code>	string	yes	Always <code>intent-gate.tool_call</code> in v6. Routing key for SIEM correlations.
<code>schema_version</code>	string	yes	Currently "6". Compare against this doc's header to spot drift.

Field	Type	Always present	Meaning
decision	string	yes	allow, block, or escalate. Note: NOT deny — that's a common mistake.
check	string	no	Which gate produced the decision: capability, intent, policy, budget, upstream. Empty on a clean allow that passed every stage.
reason	string	no	Free-text rationale (e.g., "budget exhausted: 0 tokens remain").
tenant	string	yes (default "default")	Trust-domain namespace from the verified capability token. Filter on this in multi-tenant deployments.
agent_id	string	usually	The AI agent making the call. From the capability token, not the request.
session_id	string	no	Per-session correlation key when the agent maintains state.
tool	string	yes	Tool the agent tried to invoke (e.g., read_invoice).
arg_keys	array of strings	no	Names of arguments the agent passed. Privacy-preserving: values are not included by default.
arg_values	object	no	Redacted argument values. Populated only when INTENT-GATE_AUDIT_PERSIST_ARG_VALUES is set on the gateway. Numbers/booleans survive; strings are nulled.
capability_token_id	string	usually	JTI of the capability token. Correlate to the issuance event.
root_capability_token_id	string	no	JTI of the chain root for delegated tokens. Equal to capability_token_id for root tokens.
caveat_count	int	no	Number of attenuations on the token chain.

Field	Type	Always present	Meaning
pending_id	string	no	Links an escalate event to its eventual allow/block resolution.
decided_by	string	no	Operator identity who resolved a step-up / approval flow.
intent_summary	string	no	One-line summary the intent extractor pulled from the call. Never the raw prompt. The string [stub: no rule matched] appears when the extractor had no rule for this tool — a signal you should add coverage.
latency_ms	int	yes	Wall-clock time the gateway spent on this request.
remote_ip	string	no	Source address of the agent as seen by the gateway.
upstream_status	int	no	HTTP status returned by the upstream tool server. 0 means the gateway was in stub mode or failed before any response.
requires_step_up	bool	no	Policy flagged this call as high-risk; route to your alerting pipeline.
elevation_id	string	no	JIT-elevation row id for the operator who issued the call. Empty for direct agent traffic. Join to con-sole_elevations for “what was approved when X happened.”

HEC envelope fields (Splunk-injected, not gateway-emitted):

Field	Default	Notes
source	intentgate	Configurable via INTENT-GATE_SIEM_SPLUNK_SOURCE.
sourcetype	_json	Configurable via INTENT-GATE_SIEM_SPLUNK_SOURCETYPE.

Field	Default	Notes
index	(token default)	Set explicitly via INTENT-GATE_SSIEM_SPLUNK_INDEX if you want events in a non-default index.
host	Splunk-derived	Gateway does not set host; Splunk attributes from the HEC connection.

3. Sample event

What one event looks like in your index, pretty-printed:

```
{
  "ts": "2026-05-18T17:59:56.182441Z",
  "event": "intentgate.tool_call",
  "schema_version": "6",
  "decision": "allow",
  "check": "upstream",
  "tenant": "default",
  "agent_id": "siem-victory",
  "tool": "read_invoice",
  "arg_keys": ["id"],
  "capability_token_id": "01HXYZ...",
  "intent_summary": "siem victory [stub: no rule matched]",
  "latency_ms": 14,
  "upstream_status": 200
}
```

A blocked call looks much the same but with decision: "block", a populated check (e.g., "budget"), and a reason explaining what failed.

4. Canonical SPL queries

These five queries cover ~90% of the questions a SOC analyst asks of an IntentGate event stream. Paste them into Splunk search, adjust the index name, save as alerts if they matter to you.

Replace index=main with whichever index your HEC token writes to.

4.1 All blocked calls in the last 24 hours, with reason

```
index=main source=intentgate decision=block
| stats count by check, reason, tool, agent_id
| sort -count
```

What it answers: "Which agents got rejected, by which check, why, on what tool?" The first query you run when a customer asks why their agent isn't working.

4.2 Budget breaches

```
index=main source=intentgate check=budget decision=block
| stats count by agent_id, tenant, tool
| sort -count
```

What it answers: "Who is hitting their token budget, on which tool?" Useful for capacity planning and for catching runaway agents.

4.3 Top agents by activity (last 7 days)

```
index=main source=intentgate earliest=-7d
| stats count as calls,
    count(eval(decision="allow")) as allowed,
    count(eval(decision="block")) as blocked,
    count(eval(decision="escalate")) as escalated
    by agent_id
| eval block_rate = round(blocked * 100.0 / calls, 1)
| sort -calls
```

What it answers: “Which agents are loudest, and what fraction of their traffic is being blocked?” High block-rate agents are either misbehaving or under-provisioned.

4.4 Top tools by activity (last 7 days)

```
index=main source=intentgate earliest=-7d
| stats count as calls,
    avg(latency_ms) as avg_latency,
    count(eval(decision="block")) as blocked
    by tool
| eval avg_latency = round(avg_latency, 0)
| sort -calls
```

What it answers: “Which tools are most popular, slowest, most likely to get blocked?” Triage input for the platform team.

4.5 Intent-extractor coverage gaps

```
index=main source=intentgate intent_summary="*[stub: no rule matched]*"
| stats count by tool, agent_id
| sort -count
```

What it answers: “Which tool calls are getting past the gateway without intent extraction?” Each hit is a coverage gap to file with the IntentGate ops team — every additional rule tightens the four-check pipeline.

4.6 (Bonus) Step-up flagged but allowed

```
index=main source=intentgate requires_step_up=true decision=allow
| table _time, agent_id, tool, decided_by, elevation_id, reason
| sort -_time
```

What it answers: “Where did our policy say ‘high risk’ but we let it through anyway?” The events you most want a human to glance at.

5. HEC setup recap

Your Splunk admin configures one HEC token; the gateway points at it via three env vars.

On Splunk: 1. *Settings* → *Data inputs* → *HTTP Event Collector* → *New Token*. 2. Name: intent-gate. Source type: `_json`. Index: main (or a dedicated index — `siem_intentgate` is a common convention). 3. Save the token value — you’ll paste it into the gateway’s env. 4. Confirm the HEC port is reachable from the gateway. Default 8088. TLS is recommended in production; the lab runs HTTP for simplicity.

On the gateway (env vars):

Variable	Required	Example
<code>INTENTGATE_SIEM_SPLUNK_URL</code>	yes	<code>https://splunk.example.com:8088/serv</code>
<code>INTENTGATE_SIEM_SPLUNK_TOKEN</code>	yes	the HEC token from step 3

Variable	Required	Example
INTENTGATE_SIEM_SPLUNK_INDEX	Optional	siem_intentgate (defaults to the token's default index)

The gateway validates both URL and token at startup. Either both are set or both are empty; a half-configured emitter is rejected. Tokens are never logged or exposed via the admin status endpoint.

Smoke test the connection:

```
curl -k https://splunk.example.com:8088/services/collector/health
# Expect: {"text": "HEC is healthy", "code": 17}
```

If that returns healthy and your gateway is wired correctly, events will appear in the configured index within seconds.

6. Other SIEMs

Same JSON event shape, different transport.

- **Datadog Logs.** Set `INTENTGATE_SIEM_DATADOG_API_KEY` and (optionally) `INTENTGATE_SIEM_DATADOG_SITE`. The gateway batches over Datadog's logs intake.
- **Microsoft Sentinel.** Set `INTENTGATE_SIEM_SENTINEL_WORKSPACE_ID` and `_KEY`. Events land via the Log Analytics Data Collector API.
- **Anything else (Elastic, Chronicle, Sumo).** Tail the gateway's stdout — events emit as newline-delimited JSON in the same shape — and forward with your existing log shipper (Vector, Fluent Bit, Promtail).

See `lab/.env.example` for the full env-var list and `gateway/internal/siem/` for the source of truth on supported emitters.

7. Updates

This runbook tracks the gateway's audit schema. When the schema version bumps, this document is updated and re-published. The current version is shown at the top of the document and on every event under `schema_version`. If those don't match, check for a newer runbook before re-tuning your dashboards.

Source: `lab/docs/siem-runbook.md` in the IntentGate repository. Questions: `support@intentgate.app`.