

# Tool-Use Control List

This matrix is the runtime permission table for every tool invocation an agent may attempt. It is the C10 producer: every tool invocation attempt — whether it succeeds, requires a gate, or is blocked — emits one C10 record to s1-hitl-review-policy and s3-provenance-metadata-schema. The default-deny rule governs: any tool not explicitly listed below is blocked without further evaluation. The control list is the operational instantiation of the permission architecture in t8-permission-architecture and the escalation thresholds in s1-threshold-escalation-spec.

## 1. Control level definitions

Four control levels govern tool execution. They are ordered from most to least autonomous.

- **auto:** The agent executes without any checkpoint. A C10 provenance record is still emitted for every invocation. Reserved for low-blast-radius reads that pose no irreversible-impact risk.
- **confirm:** The agent stages the invocation and presents the proposed arguments to the operator interface for a lightweight confirmation (approve/cancel). No HITL gate is opened; a simple acknowledge suffices. Used for writes that are reversible within minutes and carry no financial, comms, or destructive risk.
- **human-approval:** The agent stages the invocation and opens an S1 HITL gate per s1-hitl-review-policy. The gate must receive an explicit reviewer decision before the tool call is executed. Used for comms, financial, admin, and any external-write that is irreversible or crosses a sensitive-data boundary.
- **blocked:** The tool call is rejected at the permission-decision point. No call is made. A C10 record is emitted with `permission_decision: blocked`. An agent that attempts a blocked call has encountered a defect in its planning step, not a runtime error; the event is escalation-worthy.

A confirm step that times out without acknowledgment within the canvas-declared SLA degrades to blocked for the current run, not to auto. A human-approval gate that times out escalates per s1-threshold-escalation-spec Tier 2 or Tier 3 depending on the action class severity.

## 2. Control list matrix (fillable template)

Instantiate one row per tool. The first block below is the template; the second block is a worked instantiation for a Point Preserve / Good Combinator multi-role agent.

### 2.1 Template

```
tool_use_control_list:
  agent_id: <kebab-case agent id from s1-operating-context-canvas>
  canvas_version: <semver of the canvas this list was built against>
  last_reviewed: <ISO-8601 date>
  default_deny: true # MUST remain true; changing to false is MAJOR per C10

  tools:
    - tool_id: <kebab-case; unique within this list>
      connector: <integration name>
      operation: <specific method or endpoint; no wildcards>
      resource_scope: <narrowest resource id or pattern>
      action_class: <read | external-write | financial | comms | admin | destructive>
```

```

data_class_ceiling: <public | internal | restricted | pii>
permitted_principals: [<principal ids; from t8-permission-architecture taxonomy>]
control_level: <auto | confirm | human-approval | blocked>
hitl_gate_required: <true | false> # true whenever control_level = human-approval
rationale: <one sentence; why this control level for this tool>
last_reviewed: <ISO-8601>
stale_after_days: <integer; 60 default; 0 = no expiry>

```

## 2.2 Worked instantiation: Point Preserve + Good Combinator Ops Agent

The following matrix governs a multi-role agent supporting STR operations at Point Preserve (725 J D Miller Road, 30A) and grant-pipeline operations for Good Combinator. The agent is risk\_class: high. All control levels respect the high floor table from t8-zero-trust-assumptions. (illustrative)

```

tool_use_control_list:
  agent_id: pp-goodcombinator-ops-agent
  canvas_version: 1.0.0
  last_reviewed: 2026-05-29
  default_deny: true

tools:

  # --- READ-ONLY TOOLS (action_class: read) ---

  - tool_id: ownerrez-booking-read
    connector: ownerrez-api
    operation: GET /bookings/{id}
    resource_scope: property_id=PP-001
    action_class: read
    data_class_ceiling: internal
    permitted_principals: [agent-self, human-operator]
    control_level: auto
    hitl_gate_required: false
    rationale: Read-only booking lookup; reversible; no PII transmitted to model in raw
    form.
    last_reviewed: 2026-05-29
    stale_after_days: 60

  - tool_id: swc-stormwater-parcel-read
    connector: swc-stormwater-portal
    operation: GET /parcels/{id}
    resource_scope: parcel_id=1601-21-1-2-000-0050-0000 (PP parcel) [VERIFY parcel ID]
    action_class: read
    data_class_ceiling: public
    permitted_principals: [agent-self, service-account]
    control_level: auto
    hitl_gate_required: false
    rationale: Public parcel data from South Walton County stormwater portal; no PII.
    last_reviewed: 2026-05-29
    stale_after_days: 60

  - tool_id: notion-grant-read
    connector: notion-api
    operation: GET /pages/{id}
    resource_scope: workspace=grants-workspace-id
    action_class: read
    data_class_ceiling: internal
    permitted_principals: [agent-self]
    control_level: auto
    hitl_gate_required: false
    rationale: Read-only grant-page access within the scoped workspace.
    last_reviewed: 2026-05-29
    stale_after_days: 60

  - tool_id: stripe-payout-read

```

```
connector: stripe-api
operation: GET /payouts + GET /balance
resource_scope: account=goodcombinator-platform
action_class: read
data_class_ceiling: restricted
permitted_principals: [agent-self, human-operator]
control_level: confirm
hitl_gate_required: false
rationale: Financial read; restricted data class requires lightweight confirmation
before data enters run context.
last_reviewed: 2026-05-29
stale_after_days: 60
```

```
- tool_id: airtable-crm-read
connector: airtable-api
operation: GET /records/{id}
resource_scope: base=grant-pipeline-base
action_class: read
data_class_ceiling: internal
permitted_principals: [agent-self]
control_level: auto
hitl_gate_required: false
rationale: Read-only CRM lookup; pipeline status only.
last_reviewed: 2026-05-29
stale_after_days: 60
```

```
# --- EXTERNAL-WRITE TOOLS ---
```

```
- tool_id: ownerrez-booking-note-write
connector: ownerrez-api
operation: POST /bookings/{id}/notes
resource_scope: property_id=PP-001
action_class: external-write
data_class_ceiling: internal
permitted_principals: [agent-self, human-operator]
control_level: human-approval
hitl_gate_required: true
rationale: Booking notes are visible to human staff; write requires human-approval
per risk_class:high external-write floor.
last_reviewed: 2026-05-29
stale_after_days: 60
```

```
- tool_id: notion-grant-draft-write
connector: notion-api
operation: POST /pages
resource_scope: workspace=grants-workspace-id, parent=drafts-folder
action_class: external-write
data_class_ceiling: internal
permitted_principals: [agent-self, human-operator]
control_level: confirm
hitl_gate_required: false
rationale: Draft-only write to a sandboxed Notion folder; reversible by deleting the
draft; confirm suffices.
last_reviewed: 2026-05-29
stale_after_days: 60
```

```
- tool_id: airtable-crm-status-patch
connector: airtable-api
operation: PATCH /records/{id}?fields[]=status
resource_scope: base=grant-pipeline-base
action_class: external-write
data_class_ceiling: internal
permitted_principals: [agent-self, human-operator]
control_level: confirm
hitl_gate_required: false
rationale: Status field only; narrow scope; reversible.
last_reviewed: 2026-05-29
stale_after_days: 60
```

# --- COMMS TOOLS ---

- tool\_id: gmail-guest-draft  
connector: gmail-oauth  
operation: POST /drafts  
resource\_scope: sender=bookings@pointpreserve30a.com  
action\_class: comms  
data\_class\_ceiling: internal  
permitted\_principals: [agent-self, human-operator]  
control\_level: human-approval  
hitl\_gate\_required: true  
rationale: Guest communication draft; comms floor at risk\_class:high = human-approval.  
Agent may draft but never send without HITL.  
last\_reviewed: 2026-05-29  
stale\_after\_days: 60

- tool\_id: gmail-grant-notification-draft  
connector: gmail-oauth  
operation: POST /drafts  
resource\_scope: sender=grants@goodcombinator.ai  
action\_class: comms  
data\_class\_ceiling: internal  
permitted\_principals: [agent-self, human-operator]  
control\_level: human-approval  
hitl\_gate\_required: true  
rationale: Outbound grant-status notification; human-approval required; send endpoint is separately blocked.  
last\_reviewed: 2026-05-29  
stale\_after\_days: 60

- tool\_id: gmail-send  
connector: gmail-oauth  
operation: POST /messages/send  
resource\_scope: any  
action\_class: comms  
data\_class\_ceiling: pii  
permitted\_principals: [human-operator]  
control\_level: blocked  
hitl\_gate\_required: false  
rationale: Send (not draft) is blocked for agent-self. Only human-operator may invoke send, and only through the approved interface – not via this agent.  
last\_reviewed: 2026-05-29  
stale\_after\_days: 0

# --- FINANCIAL TOOLS ---

- tool\_id: stripe-refund-write  
connector: stripe-api  
operation: POST /refunds  
resource\_scope: account=goodcombinator-platform  
action\_class: financial  
data\_class\_ceiling: restricted  
permitted\_principals: [human-operator]  
control\_level: blocked  
hitl\_gate\_required: false  
rationale: Refunds are irreversible financial actions; blocked for agent-self entirely per irreversible-impact boundary.  
last\_reviewed: 2026-05-29  
stale\_after\_days: 0

- tool\_id: ownerrez-rate-write  
connector: ownerrez-api  
operation: PATCH /rates/{id}  
resource\_scope: property\_id=PP-001  
action\_class: financial  
data\_class\_ceiling: internal  
permitted\_principals: [human-operator]  
control\_level: blocked  
hitl\_gate\_required: false

```

    rationale: Rate changes affect live OTA pricing; on the irreversible-impact boundary;
blocked for agent-self.
    last_reviewed: 2026-05-29
    stale_after_days: 0

# --- ADMIN AND DESTRUCTIVE (all blocked) ---

- tool_id: ownerrez-booking-delete
  connector: ownerrez-api
  operation: DELETE /bookings/{id}
  resource_scope: property_id=PP-001
  action_class: destructive
  data_class_ceiling: internal
  permitted_principals: []
  control_level: blocked
  hitl_gate_required: false
  rationale: Booking deletion is irreversible; blocked for all principals including
human-operator via this agent.
  last_reviewed: 2026-05-29
  stale_after_days: 0

- tool_id: notion-page-delete
  connector: notion-api
  operation: DELETE /pages/{id}
  resource_scope: workspace=grants-workspace-id
  action_class: destructive
  data_class_ceiling: internal
  permitted_principals: []
  control_level: blocked
  hitl_gate_required: false
  rationale: Destructive; blocked for all principals via this agent.
  last_reviewed: 2026-05-29
  stale_after_days: 0

```

### 3. Emission (C10) — contract payload

Per contract C10 in interface-contracts, every tool invocation attempt (including blocked ones) emits one record to both s1-hitl-review-policy and s3-provenance-metadata-schema.

#### 3.1 Payload schema

```

{
  "tool_id": "<matches a tool_id in this list; or UNLISTED for default-deny hits>",
  "principal": "<agent-self | human-operator | upstream-agent | service-account>",
  "action_class": "<read | external-write | financial | comms | admin | destructive>",
  "permission_decision": "<auto | confirm | human-approval | blocked>",
  "decision_origin": "<permission-decision | human-override>",
  "evidence_pointer": "<URI to the policy row + the requested arguments, stored in
provenance store>"
}

```

Field semantics:

- `tool_id` must resolve to a row in this list. For default-deny hits (unlisted tools), set `tool_id`: UNLISTED and `permission_decision`: blocked.
- `decision_origin` is `permission-decision` when the policy rule determined the outcome autonomously; `human-override` when a reviewer changed a proposed blocked or human-approval decision.

- `evidence_pointer` must point to a retained record containing: the control-list row at decision time, the full requested arguments (redacted of secrets), and the principal identity hash. Heavy payloads use the {ref, hash, field} hash-and-ref pattern per C10 split-storage rules.

### 3.2 Gate rule

- human-approval decisions AND any invocation where `action_class` is financial or destructive raise a C2/S1 HITL gate event to `s1-hitl-review-policy` in addition to the C10 provenance record. The two events share a `correlation_id` so the S3 trace can stitch them.
- blocked decisions emit a C10 provenance record but no HITL gate. A blocked event from an unlisted tool additionally opens a hardening task to review whether the tool should be listed.
- auto and confirm decisions emit only the C10 provenance record. No HITL gate is opened for confirmed decisions once the operator acknowledges; the acknowledge event is part of the C10 record as a human-override with `permission_decision`: confirm.

### 3.3 Drop rule

A tool invocation that does not emit a C10 record is gate-failing. The runtime must not silently execute any tool call, including auto reads. The provenance record is not optional observability; it is the verification that the permission chain ran.

## 4. Control list change-control

Adding a new tool row or tightening a control level (e.g., confirm → human-approval) is a MINOR change: update the list, bump `last_reviewed`, note the rationale. No canvas version bump required unless the change affects the floor table.

Relaxing a control level (e.g., human-approval → confirm, or blocked → any non-blocked) is a MAJOR change: requires task-scope justification, canvas owner sign-off, and a canvas version bump if a floor-table entry is affected.

Removing the default-deny rule (`default_deny`: false) is forbidden. The default-deny rule is MAJOR-locked in C10.

Adding a new `action_class` or `permission_decision` value is MINOR per C10 change-control. Removing one is MAJOR and must propagate to all rows using the removed value.