

ATB Operating Model

This document defines the operational governance for the Agent Trust Broker (ATB) platform.

1. RACI Matrix

Activity	Broker-Team	AgentAuth-Team	Security	Legal	Platform-Ops
Define low-risk allowlist (<code>low_risk_allowlist</code>)	C	R	A	I	I
Approve high-risk agent actions (dual control)	I	R	A	C	I
Issue PoA mandates	I	R	C	A	I
Update OPA policy (<code>poa.rego</code>)	R	C	A	I	I
Maintain connector registry	R	I	C	I	C
Define legal basis templates (leg schema)	I	C	C	R	I
Review audit logs for compliance	I	I	R	C	I
Incident response (security events)	C	C	R	I	A
Platform upgrades / deployments	C	C	I	I	R

Legend: R = Responsible, A = Accountable, C = Consulted, I = Informed

2. Approval Flows

2.1 PoA Issuance – Standard Flow

```
Agent → POST /issue → AgentAuth
    └── Validate SPIFFE identity (mTLS)
    └── Validate request schema
        └── Issue EdDSA-signed PoA (5 min TTL)
```

- **Pre-requisite:** Agent must present valid SPIFFE SVID.
- **Audit:** Every issuance is logged with event_type: `poa_issued`.

2.2 PoA Issuance – Dual Control (High-Risk)

```
Agent → POST /issue { requires_dual_control: true, approvers: [...] }
    └── Validate ≥2 distinct approvers
    └── Validate approver SVID subjects differ from requester
        └── Issue EdDSA-signed PoA (short TTL)
```

- **Trigger:** Action flagged as high-risk by policy (e.g., bulk delete, PII export).
- **Approvers:** Must be distinct principals; self-approval is blocked.
- **Audit:** event_type: `poa_issued_dual_control`, includes approver IDs.

2.3 Policy Change Flow

Developer → PR to `opa/policy/poa.rego`

- └ CI: opa test (unit + integration)
- └ Security review (required CODEOWNER)
- └ Merge → GitOps deploy to OPA sidecar
- **Gate:** All policy changes require Security team approval.
- **Rollback:** Revert commit triggers automatic rollback via ArgoCD / Flux.

2.4 Connector Onboarding Flow

- Requestor → Open issue: "Add connector: <system>"
- └ Security review egress allowlist
 - └ Legal review data classification
 - └ Broker-Team implements config
 - └ Merge → Helm upgrade → Connector active
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3. Risk Thresholds

Risk Level	Definition	Control	OPA Enforcement
Low	Read-only, non-PII, internal data	PoA required (or allowlist)	low_risk_allowlist if AL-
Medium	Write operations, limited PII	PoA + single approver	LOW_UNMANDATED_LOW_RISK=leg.approval.approver_id required, must differ from requester
High	Bulk operations, PII export, financial transactions	PoA + dual control (2 approvers)	leg.dual_control.approver with ≥2 distinct principals
Critical	Cross-tenant, privileged access, deletion	Dual control + manual approval	Same as High, plus external ticket reference

Risk-Tiered Actions (in OPA policy)

Full catalog: See [docs/enterprise-actions.md](#) for complete action reference with constraint rules.

Medium-Risk Actions (medium_risk_actions) — 40+ actions including: - **CRM:** crm.contact.update, crm.lead.create, crm.opportunity.update - **ERP:** erp.order.create, erp.order.cancel, erp.invoice.create - **HR:** hr.employee.view_limited, hr.timesheet.approve, hr.leave.approve - **Support:** support.ticket.create, support.ticket.escalate - **Inventory:** inventory.stock.adjust, inventory.transfer.create - **Marketing:** marketing.campaign.launch, marketing.email.send_batch

High-Risk Actions (high_risk_actions) — 60+ actions including: - **SAP:** sap.vendor.change, sap.payment.execute, sap.journal_entry.post - **Salesforce:** salesforce.bulk.export, salesforce.apex.execute - **HR/PII:** hr.employee.export_pii, hr.payroll.run, hr.compensation.change - **Customer:** customer.gdpr.erasure, customer.ccpa.export, customer.pii.access - **IAM:** iam.role.assign, iam.mfa.disable, azure.ad.role_assign - **Cloud:** aws.iam.policy_attach,

```
azure.rbac.assign, azure.keyvault.secret_set - OT/SCADA: ot.system.manual_override,  
scada.setpoint.change,ot.safety.interlock_bypass - ServiceNow: servicenow.change.emergency_approv  
servicenow.incident.priority1_create
```

Low-Risk Allowlist(low_risk_allowlist) — 45+ read-only actions: - **CRM reads**: crm.contact.read, crm.lead.list, crm.opportunity.read - **ERP reads**: erp.order.read, erp.invoice.read, erp.vendor.read - **Catalog**: catalog.product.read, catalog.category.list - **Support**: support.ticket.read, support.kb.search - **Reporting**: reporting.dashboard.view, analytics.dashboard.view

Example leg Claims by Tier

Medium-risk (single approver):

```
{  
  "leg": {  
    "jurisdiction": "US",  
    "accountable_party": {"type": "employee", "id": "emp-100"},  
    "approval": {  
      "approver_id": "manager-001",  
      "approved_at": "2024-01-15T10:00:00Z"  
    }  
  }  
}
```

High-risk (dual control):

```
{  
  "leg": {  
    "jurisdiction": "EU",  
    "accountable_party": {"type": "employee", "id": "emp-200"},  
    "dual_control": {  
      "required": true,  
      "approvers": [  
        {"id": "approver-a", "type": "manager"},  
        {"id": "approver-b", "type": "compliance"}  
      ]  
    }  
  }  
}
```

4. Mandate Templates

Templates for common leg (legal basis) claims:

4.1 Legitimate Interest

```
{  
  "leg": {  
    "basis": "LI",  
    "ref": "LI-2024-001",  
    "description": "Routine system maintenance"  
  }  
}
```

4.2 Contractual Necessity

```
{  
  "leg": {  
    "basis": "CONTRACT",  
    "ref": "MSA-12345",  
    "description": "Fulfill customer order #789"  
  }  
}
```

4.3 Consent

```
{  
  "leg": {  
    "basis": "CONSENT",  
    "ref": "CONSENT-TOKEN-abc123",  
    "data_subject": "user@example.com",  
    "purpose": "Marketing email"  
  }  
}
```

4.4 Legal Obligation

```
{  
  "leg": {  
    "basis": "LEGAL",  
    "ref": "GDPR-Art17",  
    "description": "Right to erasure request"  
  }  
}
```

5. Escalation Paths

Severity	Response Time	Escalation
P1	15 min	On-call <input type="checkbox"/> Security Lead <input type="checkbox"/> CISO
P2	1 hour	On-call <input type="checkbox"/> Team Lead
P3	4 hours	Ticket queue
P4	Next sprint	Backlog

Security Event Triggers (P1)

- ATBSecurityPolicyDenialSpike alert fires
 - Audit log shows repeated poa_single_use_replay_blocked
 - Guardrails blocks confirmed prompt injection attempt
-

6. Audit Retention

Log Type	Retention	Storage
Access logs	90 days	Splunk / Elastic
Audit events	7 years	Immutable blob (compliance)
Prometheus metrics	30 days	Thanos / Cortex

7. Change Management

All production changes follow the standard CAB process:

1. **RFC Submission:** Describe change, risk, rollback plan.
 2. **CAB Review:** Weekly meeting; emergency changes via on-call.
 3. **Approval:** Requires Security + Platform-Ops sign-off.
 4. **Execution:** GitOps deployment with canary rollout.
 5. **Validation:** Smoke tests + SLO dashboards.
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8. Contact Points

Role	Team / Alias
Broker-Team	#atb-broker / broker@corp.com
AgentAuth-Team	#atb-agentauth / agentauth@...
Security	#security-oncall / security@...
Legal / Compliance	#legal-privacy / legal@...
Platform-Ops	#platform-ops / ops@...

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