

Enterprise Actions Reference

This document describes the risk-tiered action catalog and constraint policies enforced by ATB's OPA policy engine.

Risk Tier Overview

Tier	Count	Approval Required	Examples
High	60+	Dual control (2 distinct approvers)	SAP payments, bulk PII export, IAM escalation, OT safety overrides
Medium	40+	Single approver	CRM updates, order management, inventory adjustments
Low (allowlisted)	45+	None (valid PoA sufficient)	Read-only queries, status checks, catalog browsing

High-Risk Actions

Actions in this tier require **dual control**: two distinct approvers in `leg.dual_control.approvers`, neither of whom may be the PoA subject.

SAP ERP

Action	Description	Constraint Rules
<code>sap.vendor.create</code>	Create new vendor master	Dual control
<code>sap.vendor.change</code>	Modify vendor master	Amount ≤ 5000 or dual + liability_cap ≥ amount
<code>sap.vendor.bank_change</code>	Change vendor bank details	Second-channel verification, reason ≥ 10 chars
<code>sap.payment.execute</code>	Execute single payment	Amount ≤ payment_limit (default 100k)
<code>sap.payment.batch_Release</code>	Release payment batch	Batch count ≤ max_batch_count, total ≤ max_batch_amount
<code>sap.goods_receipt.Post</code>	Post goods receipt	Dual control
<code>sap.invoice.post</code>	Post vendor invoice	Dual control
<code>sap.journal_entry.Post</code>	Post journal entry	GL account + cost center required, amount ≠ 0
<code>sap.cost_center.create</code>	Create cost center	Dual control
<code>sap.gl_account.create</code>	Create GL account	Dual control

Financial Transactions

Action	Description
<code>erp.payment.process</code>	Process ERP payment
<code>erp.payment.batch</code>	Batch payment processing
<code>erp.refund.process</code>	Process refund

Action	Description
erp.credit_note.issue	Issue credit note
finance.wire_transfer.execute	Execute wire transfer
finance.ach.batch_submit	Submit ACH batch
finance.fx.trade_execute	Execute FX trade

Salesforce

Action	Description	Constraint Rules
salesforce.bulk.export	Bulk data export	Dataset in allowlist, rows ≤ max_rows (10k default)
salesforce.bulk.delete	Record deletion	Object in deletable list, count ≤ max_delete_count (1k default)
salesforce.bulk.update	Record update	Dual control
salesforce.apex.execute	Apex script	Script in approved_apex_scripts list
salesforce.permission.set	Assign permission	Dual control
salesforce.profile.modify	User profile	Dual control
salesforce.report.Export	Export report data	Report in exportable_reports list

CRM Bulk Operations

Action	Description
crm.contacts.bulk_delete	Bulk delete contacts
crm.contacts.bulk_export	Bulk export contacts
crm.accounts.bulk_merge	Merge multiple accounts
crm.data.mass_update	Mass data update

HR/PII Sensitive

Action	Description	Constraint Rules
hr.employee.export	Export employee PII	Purpose in [audit, legal_hold, regulatory_compliance, internal_investigation], count ≤ max_pii_export (500 default)
hr.employee.terminate	Terminate employee	Offboarding checklist complete, reason ≥ 10 chars
hr.payroll.run	Run payroll	Period specified, employee count ≤ max_payroll_employees
hr.payroll.adjust	Adjust payroll	Dual control
hr.compensation.change	Change compensation	Percentage ≤ max_compensation_pct_change (25% default), ≥ -50%, justification ≥ 20 chars
hr.ssn.view	View SSN	Dual control
hr.bank_details.update	Update bank details	Dual control

Customer Data

Action	Description	Constraint Rules
customer.data.export	Export customer data	Dual control
customer.data.bulkDelete	Delete customer data	Dual control
customer pii.access	Access customer PII	Purpose in [support_case, billing_inquiry, identity_verification, fraud_investigation], reference_id required
customer.gdpr.erase	GDPR erasure request	Request ID required, days_since_request ≤ 30
customer.ccpa.export	CCPA data export	Request ID required, format in [json, csv, pdf]

IAM/Identity

Action	Description	Constraint Rules
iam.role.assign	Assign role to user	Role + target_user required, no self-assign, role in assignable_roles (if constrained)
iam.role.create	Create new role	Dual control
iam.permission.grant	Grant permission	Dual control
iam.user.create_admin	Create admin user	Dual control
iam.mfa.disable	Disable user MFA	Incident reference required, target_user required, identity verified
iam.api_key.create	Create API key	Dual control
iam.service_account.create	Create service account	Dual control
azure.ad.group_add	Add to Azure AD group	Dual control
azure.ad.role_assign	Assign Azure AD role	Dual control
okta.user.unlock	Unlock Okta user	Dual control
okta.factor.reset	Reset Okta MFA factor	Dual control

Cloud Infrastructure

Action	Description	Constraint Rules
aws.iam.policy_attach	Attach IAM policy	Admin policies blocked unless allow_admin_policy=true
aws.s3.bucket_policy_set	S3 bucket policy	Dual control
aws.ec2.security_group_modify	Modify security group	Dual control
azure.rbac.assign	Assign Azure RBAC role	Subscription-level Owner blocked unless allow_subscription_owner=true
azure.keyvault.secret_set	Set KeyVault secret	Protected vaults blocked unless allow_protected_vault_write=true
gcp.iam.binding_add	Add GCP IAM binding	Dual control
k8s.rbac.clusterrolebinding_k8s	Bind K8s ClusterRole	Dual control
k8s.secret.create	Create K8s secret	Dual control

OT/Safety Critical

Action	Description	Constraint Rules
ot.system.manual_override	Manually system override	HIL approval required, window ≤ 900s (15 min)
ot.safety.interlock_bypass	Bypass safety interlock	Justification ≥ 20 chars, duration ≤ max_bypass_duration (3600s default), safety_officer_approved

Action	Description	Constraint Rules
scada.setpoint.change	Change SCADA setpoint	Value within [setpoint_min, setpoint_max], safety_review_acknowledged
scada.alarm.acknowledge	Acknowledge critical alarm	Dual control
plc.program.upload	Upload PLC program	Dual control
hmi.mode.change_to	Switch HMI to manual	Dual control

ServiceNow

Action	Description	Constraint Rules
servicenow.change.Emergency_change_approval	Emergency change approval	Change number required, CAB approved OR emergency with justification ≥ 20 chars
servicenow.incident.create	Created Priority incident	Business impact ≥ 10 chars, affected_users > 0
servicenow.cmdb.bulkupdate	Bulk update	Dual control

Workday

Action	Description	Constraint Rules
workday.worker.terminate	Terminate worker	Dual control
workday.compensation.holiday_compensation	Holiday compensation	Percentage ≤ max_compensation_pct_change, effective_date required
workday.org.restructure	Org restructure	Dual control

Dynamics 365

Action	Description	Constraint Rules
dynamics.entity.bulk_delete	Entity deletion	Entity in deletable_entities (if constrained), count ≤ max_delete_count
dynamics.workflow.deactivate	Deactivate workflow	Dual control
dynamics.security_assignment	Assign security role	Dual control

Medium-Risk Actions

Actions in this tier require **single approver**: leg.approval.approver_id must be present and different from PoA subject.

CRM Operations

Action	Description
crm.contact.update	Update contact record
crm.contact.delete	Delete contact
crm.lead.create	Create lead

Action	Description
crm.lead.convert	Convert lead to opportunity
crm.opportunity.update	Update opportunity
crm.account.update	Update account

ERP/Order Management

Action	Description
erp.order.create	Create order
erp.order.update	Update order
erp.order.cancel	Cancel order
erp.invoice.create	Create invoice
erp.invoice.void	Void invoice
erp.purchase_order.create	Create purchase order
erp.purchase_order.approve	Approve purchase order

HR (Limited PII Access)

Action	Description
hr.employee.view_limited	View limited employee info
hr.employee.update_contact	Update employee contact info
hr.timesheet.approve	Approve timesheet
hr.leave.approve	Approve leave request
hr.org_chart.update	Update org chart

Support/Ticketing

Action	Description
support.ticket.create	Create support ticket
support.ticket.update	Update ticket
support.ticket.escalate	Escalate ticket
support.ticket.reassign	Reassign ticket
support.case.merge	Merge cases

Inventory/Warehouse

Action	Description
inventory.stock.adjust	Adjust stock levels
inventory.transfer.create	Create inventory transfer
inventory.count.submit	Submit inventory count
warehouse.location.update	Update warehouse location

Product/Catalog

Action	Description
catalog.product.update	Update product
catalog.product.publish	Publish product
catalog.price.update	Update pricing
catalog.category.update	Update category

Marketing

Action	Description
marketing.campaign.launch	Launch marketing campaign
marketing.email.send_batch	Send batch email
marketing.segment.update	Update marketing segment

Collaboration

Action	Description
sharepoint.document.share_external	Share document externally
teams.channel.create	Create Teams channel
confluence.space.permission_update	Update Confluence permissions

Low-Risk Allowlist

Actions in this tier are **allowed without special approval** when a valid PoA is present. They can also bypass PoA entirely if ALLOW_UNMANDATED_LOW_RISK=true.

System/Infrastructure

- system.health.check
- system.status.get
- system.version.get
- system.config.read

Knowledge Base/Documentation

- kb.faq.query
- kb.docs.search
- kb.article.read

Reporting (Non-PII)

- reporting.dashboard.view
- reporting.metrics.get
- report.sales.summary
- report.inventory.status
- report.support.metrics
- analytics.dashboard.view

Agent Introspection

- `agent.self.capabilities`
- `agent.self.identity`

CRM Read Operations

- `crm.contact.read, crm.contact.list`
- `crm.lead.read, crm.lead.list`
- `crm.opportunity.read, crm.opportunity.list`
- `crm.account.read, crm.account.list`

ERP Read Operations

- `erp.order.read, erp.order.list`
- `erp.invoice.read`
- `erp.purchase_order.read`
- `erp.product.read`
- `erp.vendor.read`
- `erp.customer.read`

HR Read Operations (Non-PII)

- `hr.org_chart.read`
- `hr.department.list`
- `hr.job_posting.read`
- `hr.holiday.list`

Support/Ticketing Read Operations

- `support.ticket.read, support.ticket.list`
- `support.kb.search, support.kb.read`

Inventory Read Operations

- `inventory.stock.read`
- `inventory.location.list`
- `warehouse.status.read`

Catalog Read Operations

- `catalog.product.read, catalog.product.list`
- `catalog.category.list`
- `catalog.price.read`

Collaboration Read Operations

- `sharepoint.document.read, sharepoint.list.read`
- `teams.channel.list, teams.message.read`

Constraint Schema Reference

Common Constraint Fields

Field	Type	Description
dual_control	boolean	Require dual control for the action
liability_cap	number	Maximum liability amount covered
max_rows	number	Maximum rows for bulk operations
max_delete_count	number	Maximum records for deletion
dataset_allowlist	string[]	Allowed datasets for export
approved_apex_scripts	string[]	Allowed Apex scripts
exportable_reports	string[]	Allowed report IDs for export
deletable_objects	string[]	Objects allowed for deletion
deletable_entities	string[]	Entities allowed for deletion
assignable_roles	string[]	Roles allowed for assignment
protected_vaults	string[]	Key Vault names that are protected

OT/Safety Constraints

Field	Type	Description
override_window_seconds	number	Max duration for manual override (≤ 900)
max_bypass_duration	number	Max interlock bypass duration (default 3600)
setpoint_min	number	Minimum safe setpoint value
setpoint_max	number	Maximum safe setpoint value

HR/Compensation Constraints

Field	Type	Description
max_compensation_pct_change	number	Max percentage change (default 25%)
max_pii_export	number	Max PII records to export (default 500)
max_payroll_employees	number	Max employees in payroll run

Cloud Constraints

Field	Type	Description
allow_admin_policy	boolean	Allow Administrator policy attachment
allow_subscription_owner	boolean	Allow subscription-level Owner
allow_protected_vault_write	boolean	Allow writes to protected vaults

Extending the Action Catalog

To add new actions:

1. Identify risk tier based on:

- Financial impact
- PII/sensitive data access

- Privilege escalation potential
- Safety implications
- Reversibility

2. **Add to appropriate list** in opa/policy/poa.rego:

- low_risk_allowlist (objects with action/methods)
- medium_risk_actions (strings)
- high_risk_actions (strings)

3. **Add constraint rules** (optional) for high-risk actions:

```
action_allowed {  
    act == "your.new.action"  
    your_new_action_allowed  
}  
  
your_new_action_allowed {  
    # Constraint validation logic  
}
```

4. **Add to explicit_high_risk_rule** if action has constraint rules

5. **Add tests** in opa/policy/ to validate enforcement

6. **Update documentation** in this file