

Dify capabilities

Use this index to choose the Dify family that owns a task and interpret its AIP contract before invocation. The reviewed frozen catalogue contains 79 provider operations. Each configured app also publishes one invocation alias.

SECTION	Connectors
TYPE	Connector
PROTOCOL	AIP 1.0
SOURCE	docs/connectors/dify/capabilities/README.md

The source-derived `../assets/capabilities.json` snapshot owns the ordered machine inventory. Focused pages own task guidance and interpretation; the snapshot does not replace runtime discovery or the source that constructs each contract.

Catalogue identity

Property	Reviewed value
AIP source	97be86e9efedf07ecf1783b03800f683f107fb04
Pinned Dify source	f8d47616c15d0959f604f6a5e2e1d32d3108991b
Connector profile	aip.connector.dify.v1
App operations	33
Knowledge operations	46
Frozen operations	79
Reads	32
Mutations	47
App invocation aliases	One per configured app

A matching suffix does not prove that a capability is discoverable. The app mode, configured credential, admitted manifest, tenant binding, artifact, and provider baseline remain part of capability identity.

Choose a family

Each frozen operation appears in exactly one family.

Family	Focused page	Total	Read	Mutation	Low	Medium	High	Approval	Retry
App metadata and files	app-metadata-and-files.md	7	6	1	6	1	0	1	6
Chat, conversations, and feedback	chat-messages-conversations-and-feedback.md	9	5	4	5	3	1	4	5
Workflows, streams, and human input	workflows-streaming-and-human-input.md	9	4	5	4	4	1	5	4

Family	Focused page	Total	Read	Mutation	Low	Medium	High	Approval	Retry
Audio	audio.md	2	0	2	0	2	0	2	0
Annotations	annotation s.md	6	2	4	2	2	2	4	2
Datasets, tags, and retrieval	knowledge- datasets-t ags-and-r etrieval.md	13	4	9	4	7	2	9	4
Documents and indexing	knowledge- documents- and-indexi ng.md	12	4	8	4	7	1	8	4
Segments and child chunks	knowledge- segments-a nd-child-c hunks.md	9	3	6	3	4	2	6	3
Metadata and models	knowledge- metadata-a nd-models. md	8	3	5	3	4	1	5	3
Pipelines and uploads	knowledge- pipelines- and-upload s.md	4	1	3	1	3	0	3	1
Total		79	32	47	32	37	10	47	32

Retry means connector contract support for that read. It does not authorize a caller to repeat an Action without checking its identity, terminal state, budget, and provider outcome.

Read capability IDs

An app invocation alias contains only the configured app ID:

```
TEXT
cap:dify:support-chat
■          ■■■■■■■■■■■■■■■■■■■■■■ configured app
■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■ connector namespace
```

An app catalogue operation appends a frozen suffix:

```
TEXT
cap:dify:support-chat:conversation.list
■          ■          ■■■■■■■■■■■■■■■■■■■■■■ operation
■          ■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■ configured app
■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■ connector namespace
```

A Knowledge capability has an explicit credential domain:

```
TEXT
cap:dify:knowledge:main-workspace:dataset.list
■          ■          ■          ■■■■■ operation
■          ■          ■■■■■■■■■■■■■■■■■■■■■ credential ID
■          ■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■ Knowledge domain
■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■ connector namespace
```

Do not derive an ID from a Dify URL. Use authenticated tenant discovery and the admitted manifest.

Calculate a configuration's surface

One app publishes its alias plus the operations supported by its mode:

Mode	App operations	Alias included	App capabilities
workflow	23	1	24

Mode	App operations	Alias included	App capabilities
completion	19	1	20
chat	27	1	28
advanced-chat	29	1	30
agent-chat	27	1	28
agent	27	1	28

Each Knowledge credential adds 46 capabilities. The total is the sum across configured apps and Knowledge credentials. The host must still satisfy the global admitted-manifest limit, so descriptor parser maxima are not usable surface maxima.

Distinguish credential scopes

Scope	Capability prefix	Credential
App alias and app operations	cap:diffy:<app_id>	API key loaded for that app
Knowledge operations	cap:diffy:knowledge:<credential_id>	Workspace Knowledge API key

Binding metadata records the public credential ID, credential class, operation, provider method, path template, and upstream revision. It never contains the Bearer value.

Interpret methods and mutation class

Provider method	Count	AIP class
GET	32	Read
POST	31	Mutation
PUT	2	Mutation
PATCH	6	Mutation
DELETE	8	Mutation

Only GET is retry-safe in the frozen catalogue. A stop, status toggle, form submission, retrieval request, archive generation, or model execution remains a mutation when its provider method is not GET.

Interpret kind and risk

Kind	Count	Meaning
Tool	73	Normal app or Knowledge operation
Workflow	6	Workflow run read, run-by-ID, stop, event stream, and human-input form operations

The app invocation alias is a Workflow for workflow mode and an Agent for all other modes.

Risk	Count	Rule
Low	32	Every GET
Medium	37	Non-delete mutation except two named high-impact operations
High	10	Every DELETE, workflow.run_by_id, and annotation_reply.toggle

Risk is policy input, not authorization. Medium and high mutations both require approval and idempotency.

Apply approval, idempotency, and retry

Contract	Catalogue read	Catalogue mutation	App invocation alias
Approval	No	Required	Required for workflow and agent-family modes
Idempotency key	Optional	Required	Required
Key scope	Tenant	Tenant	Tenant
Collision behavior	Revalidate input hash	Revalidate input hash	Revalidate input hash
Published TTL	86400000 ms	86400000 ms	86400000 ms
Connector retry support	Yes	No	No
Retry safety	Safe	Unsafe	Unsafe

Catalogue approval uses tenant policy for 900,000 ms and requires a reason, input snapshot, and policy decision. The absence of connector-required approval on plain `chat` or `completion` aliases does not override deployment policy.

An idempotency key identifies one intent. It does not prove that Dify deduplicates every route, stream, model invocation, or mutation. Preserve the same Action and inspect provider state after an uncertain outcome.

Understand execution and response transport

Response kind	Count	AIP result
JSON or UTF-8	74	HTTP status, decoded body, optional content type and provider request ID
Binary	3	HTTP status, base64 content, content type, size, and optional request ID
Server-sent events	2	Bounded event handling and normalized result

The two catalogue SSE operations are `workflow.run_by_id` and `workflow.event.stream`. The three binary operations are `file.preview`, `audio.synthesize`, and `document.download_zip`.

Six operations use multipart input: `file.upload`, `audio.transcribe`, three document upload or update operations, and `pipeline.file.upload`. Every other frozen operation uses path, query, and optional JSON input.

App invocation aliases separately support sync, async, streaming, and cancellation. Catalogue support is operation-specific.

Apply data and compensation rules

All 79 frozen operations and every app alias declare:

- confidential data;
- possible personal information;
- required redaction;
- external network side effects.

Reads add a read side effect. Mutations add a write side effect, require approval and a key, and declare `rollback_not_supported` with no compensating capability. The connector publishes no transaction or reconciliation support.

Use the machine snapshot

The JSON asset contains source and upstream identities, aggregate counts, the app-alias contract, and one ordered record for every frozen operation. Each record includes ID template, family, scope, route, user placement, encoding, transport, supported modes, kind, risk, approval, idempotency, execution, data, and compensation.

Its reviewed SHA-256 is:

```
TEXT
7884f23e2abce41ea14e869d4202f497a2294ae931facd7917467624a7fc6019
```

The snapshot is a source-derived review artifact. It does not prove registry admission, tenant authorization, artifact qualification, or live Dify compatibility.

Choose the next page

- Use `app-metadata-and-files.md` for app discovery, end users, upload, and preview.
- Use `chat-messages-conversations-and-feedback.md` for chat history and state.
- Use `workflows-streaming-and-human-input.md` for remote tasks and forms.
- Use `audio.md` and `annotations.md` for their app-specific domains.
- Use the five `knowledge-*.md` pages for workspace datasets, documents, chunks, metadata, models, and pipelines.

Related documentation

- [Source-derived capability snapshot](#)
- [Dify connector overview](#)
- [Dify connector configuration](#)
- [Capabilities and contracts](#)
- [Approvals and policy](#)