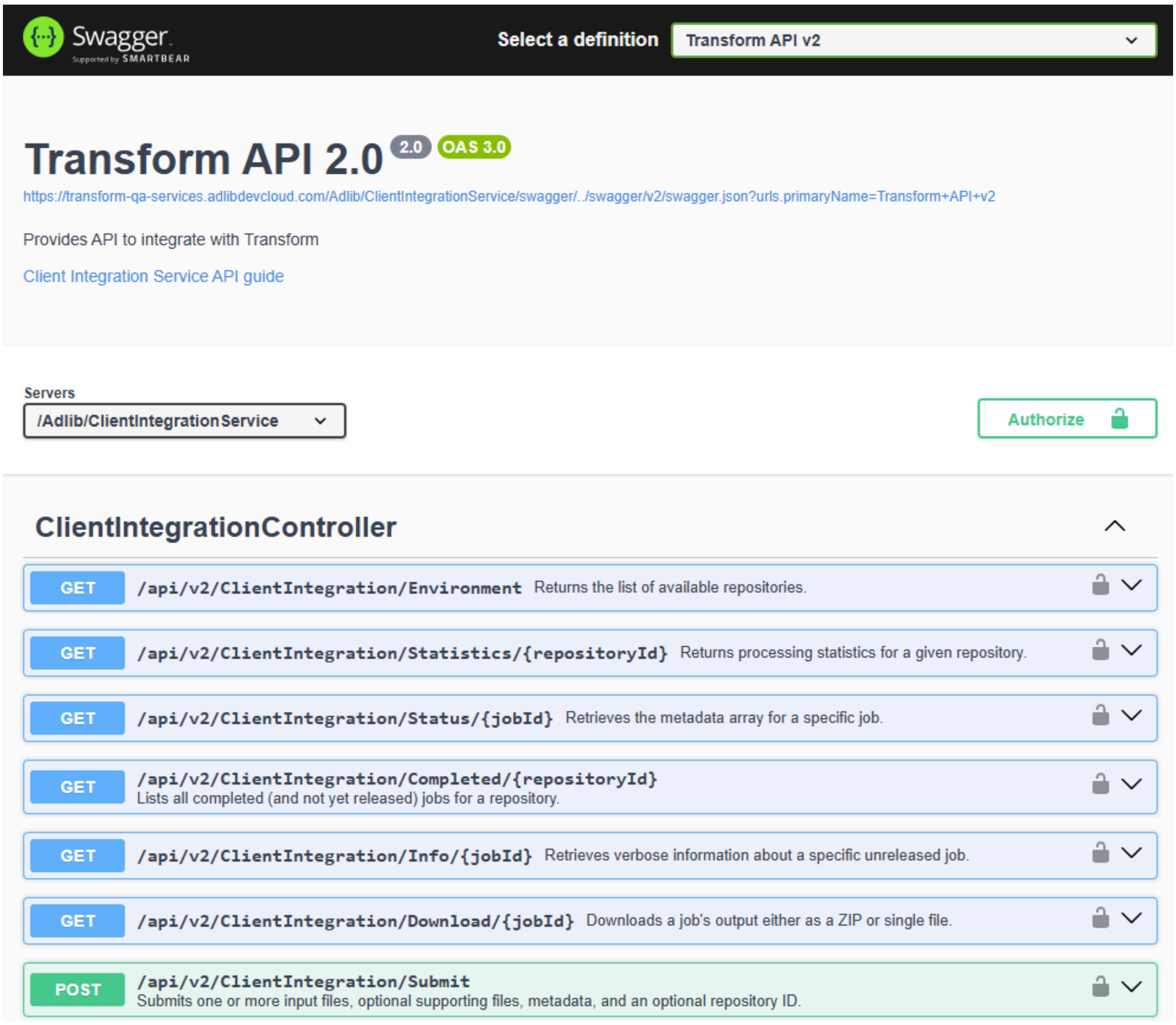
ADLIB

Adlib Transform REST API v2 - Integration Guide

Clients and Partners can easily integrate with Adlib Transform to access Agentic high fidelity rendering, classification, extraction, and validation of critical business documents. This developer guide and sample files will help you access these great features. Note: this requires that you have an Adlib Transform deployment within your enterprise.

Once you have integration up and running, check out **Adlib's Solution Hub** for ready made models and solutions to get you extracting and processing documents in minutes. https://hub.adlibsoftware.com/

- **Audience:** Customers integrating with **Adlib Transform** via REST API.
- **Assumption:** Transform is already deployed (containers or VMs) and reachable from your network.
- **Swagger UI:** `https://transform-services-url/Adlib/ClientIntegrationService/swagger/index.html?urls.primaryName=Transform+API+v2`
- **Service base URL:** `https://transform-services-url/Adlib/ClientIntegrationService/`
- **Postman** A postman collection is provided for you to quickly get testing CIS 2.0.postman_collection.json


Select a definition: Transform API v2

Transform API 2.0 2.0 OAS 3.0

https://transform-qa-services.adlibdevcloud.com/Adlib/ClientIntegrationService/swagger/../swagger/v2/swagger.json?urls.primaryName=Transform+API+v2

Provides API to integrate with Transform

Client Integration Service API guide

Servers: /Adlib/ClientIntegrationService

Authorize

ClientIntegrationController

GET `/api/v2/ClientIntegration/Environment` Returns the list of available repositories.

GET `/api/v2/ClientIntegration/Statistics/{repositoryId}` Returns processing statistics for a given repository.

GET `/api/v2/ClientIntegration/Status/{jobId}` Retrieves the metadata array for a specific job.

GET `/api/v2/ClientIntegration/Completed/{repositoryId}` Lists all completed (and not yet released) jobs for a repository.

GET `/api/v2/ClientIntegration/Info/{jobId}` Retrieves verbose information about a specific unreleased job.

GET `/api/v2/ClientIntegration/Download/{jobId}` Downloads a job's output either as a ZIP or single file.

POST `/api/v2/ClientIntegration/Submit` Submits one or more input files, optional supporting files, metadata, and an optional repository ID.

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1) Concepts and high-level flow

A typical integration uses this loop:

1. **Generate an API key** in the Transform **API Key Manager** (UI).
2. **Discover repositories** with `GET Environment`.
3. **Submit** one or more input files (and optional supporting files + metadata) with `POST Submit` to create a job.
4. **Poll** until the job is complete using:
   - `GET Status/{jobId}` (single job)
   - or `GET Completed/{repositoryId}` (batch polling)

5. **Download** results with `GET Download/{jobId}`

6. **Release** the job with `PUT Release/{jobId}` so it won't show up in future polls.

---

2) Authentication (required on every request)

Transform API v2 uses an API key passed via header:

- Header name: **`X-Api-Key`**
- Add it to **every** request.

Example:

```
X-Api-Key: <YOUR_API_KEY>
```

Generate an API key

In the Transform UI, open **Transform API Key Manager**, create a new key, then copy/store it securely (treat it like a password). Use that value in the `X-Api-Key` header for all calls.

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3) Base URL and endpoint patterns

All v2 endpoints are under:

```
https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/
```

Example (provided): `GET https://transform-services-url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Environment`

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4) Common responses and data types

Most JSON responses include:

- `success` (boolean)
- `message` (string, optional)

For example, **EnvironmentResponse** includes repositories and global variables.

Job status responses return fields like:

- `jobId`, `repositoryId`, `status`, `details`
- `totalQueueTimeInSec`, `totalProcessingTimeInSec`

---

5) Getting started walkthrough (recommended)

Step A — Get repositories and environment info

Endpoint: `GET Environment` **URL**: `.../Environment`

cURL

```
curl -sS -X GET \
  "https://transform-services-url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Environment" \
  -H "X-Api-Key: $TRANSFORM_API_KEY"
```

What you get back

- A list of repositories (IDs + names + rulesets)
- Global variables
- A `lastChanged` timestamp

Pick the `repositoryId` you want to submit into.

Step B — Submit files to create a job

Endpoint: `POST Submit` **URL**: `.../Submit`

This endpoint accepts `multipart/form-data` and returns a **jobId (UUID)** on success.

> **Note:** Swagger UI has limitations for mapping `InputFiles` correctly for multipart uploads; use Postman or your client code instead.

Multipart field naming (important)

When sending one or more input files, you must name form parts like:

- `RepositoryId`: `<repo-guid>`
- `InputFiles[0].InputFile`: `<binary file>`
- `InputFiles[0].FileMetadata[0].Name`: `<string>` (optional)
- `InputFiles[0].FileMetadata[0].Value`: `<string>` (optional)
- Repeat for `InputFiles[1]...`, `InputFiles[2]...`, etc.
- Optional supporting files: `SupportingFiles` (repeatable)

cURL — submit 1 file (plus per-file metadata)

```
REPO_ID="00000000-0000-0000-0000-000000000000"
INPUT_FILE="./input.pdf"

curl -sS -X POST \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Submit" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -F "RepositoryId=$REPO_ID" \
  -F "InputFiles[0].InputFile=@${INPUT_FILE};type=application/octet-stream" \
  -F "InputFiles[0].FileMetadata[0].Name=Source" \
  -F "InputFiles[0].FileMetadata[0].Value=Uploaded via curl"
```

cURL — submit multiple input files + supporting file(s)

```
curl -sS -X POST \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Submit" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -F "RepositoryId=$REPO_ID" \
  -F "InputFiles[0].InputFile=@./a.docx;type=application/octet-stream" \
  -F "InputFiles[1].InputFile=@./b.pdf;type=application/octet-stream" \
  -F "SupportingFiles=@./supporting.zip;type=application/octet-stream"
```

Step C — Poll for completion

You can poll either by **job** or by **repository**.

Option 1: Poll a single job

Endpoint: `GET Status/{jobId}`

cURL

```
JOB_ID="11111111-1111-1111-1111-111111111111"

curl -sS -X GET \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Status/$JOB_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY"
```

Option 2: Poll a repository for completed (unreleased) jobs

Endpoint: `GET Completed/{repositoryId}?maxItems=10`

cURL

```
curl -sS -X GET \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Completed/$REPO_ID?
maxItems=10" \
  -H "X-Api-Key: $TRANSFORM_API_KEY"
```

Step D — Download output

Endpoint: `GET Download/{jobId}` Returns either a single file or a ZIP archive (based on the job output).

cURL

```
curl -L -X GET \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Download/$JOB_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -o "output_$JOB_ID.bin"
```

Tip: many clients read the `Content-Disposition` header to determine the output filename.

Step E — Release the job (recommended)

Endpoint: `PUT Release/{jobId}` Marks the job as released so it won’t be returned again by `Completed/{repositoryId}`.

cURL

```
curl -sS -X PUT \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Release/$JOB_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -i
```

---

6) Endpoint reference (v2)

Environment & repository monitoring

`GET Environment`

Returns available repositories and global variables.

`GET Statistics/{repositoryId}`

Returns counts by state (queued/transforming/etc.) and averages.

cURL

```
curl -sS -X GET \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Statistics/$REPO_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY"
```

Job lifecycle

`POST Submit`

Creates a new job (multipart upload).

`GET Status/{jobId}`

Gets status for a job.

`GET Info/{jobId}`

Verbose job info including input/output file info and job metadata.

cURL

```
curl -sS -X GET \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Info/$JOB_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY"
```

`GET Completed/{repositoryId}`

Lists completed jobs not yet released (use for polling).

`GET Download/{jobId}`

Downloads output.

`PUT Release/{jobId}`

Marks completed job as released.

`PUT Cancel/{jobId}`

Cancels a queued job (only if still queued).

cURL

```
curl -sS -X PUT \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Cancel/$JOB_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -i
```

`PUT Metadata/{jobId}`

Replaces the job’s metadata (and/or file metadata) with a new set.

Example JSON body shape

- `jobMetadata`: array of `{ name, value }`
- `fileMetadata`: array of file entries (each may include metadata)

cURL

```
curl -sS -X PUT \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/Metadata/$JOB_ID" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -H "Content-Type: application/json" \
  -d '{
    "jobMetadata": [
      { "name": "CustomerMatterId", "value": "A-12345" },
      { "name": "Priority", "value": "High" }
    ]
  }' \
  -i
```

AI (Future coming in 2026.1)

`POST AiRagChat`

Invokes a RAG chat request which will reference and deep research all the content previously processed with Adlib Transform from a particular collection of documents:

- `sessionId` (UUID)

- `message`
- `collection`
- `category`

Response includes `resultCode`, `resultMessage`, `metadata`, and `response`.

cURL

```
curl -sS -X POST \
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/AiRagChat" \
  -H "X-Api-Key: $TRANSFORM_API_KEY" \
  -H "Content-Type: application/json" \
  -d '{
    "sessionId": "22222222-2222-2222-2222-222222222222",
    "message": "Find documents about contract termination.",
    "collection": "LegalLibrary",
    "category": "Contracts"
  }'
```

---

7) Language examples (from the provided sample clients)

Below are representative patterns from the sample client apps (Python + TypeScript), expanded with **Java** and **C#** equivalents. All examples show the same core requirements:

- Base path: `https://transform-services-url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/`
- Add `X-Api-Key` to **every** request
- `Submit` uses `multipart/form-data` field names like `InputFiles[0].InputFile`

> Tip: In all languages, **poll `Status/{jobId}` until completed**, then **download**, then **release**.

Python (aiohttp) — submit + poll + download

Key ideas:

- Add header `X-Api-Key` on every call
- Use multipart field names like `InputFiles[0].InputFile`

```
import aiohttp
from aiohttp import FormData
import asyncio

BASE = "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration"
API_KEY = "YOUR_API_KEY"
REPO_ID = "00000000-0000-0000-0000-000000000000"

async def main():
    headers = {"X-Api-Key": API_KEY}

    async with aiohttp.ClientSession() as session:
        # 1) Environment
        async with session.get(f"{BASE}/Environment", headers=headers) as r:
            env = await r.json()
            print("Environment:", env)

        # 2) Submit
        form = FormData()
        form.add_field("RepositoryId", REPO_ID)
        form.add_field(
            "InputFiles[0].InputFile",
            open("input.pdf", "rb"),
            filename="input.pdf",
            content_type="application/octet-stream",
        )

        async with session.post(f"{BASE}/Submit", data=form, headers=headers) as r:
            job_id = await r.json()
            print("JobId:", job_id)

        # 3) Status
        async with session.get(f"{BASE}/Status/{job_id}", headers=headers) as r:
            status = await r.json()
            print("Status:", status)

        # 4) Download
        async with session.get(f"{BASE}/Download/{job_id}", headers=headers) as r:
            content = await r.read()
            with open(f"output_{job_id}.bin", "wb") as f:
                f.write(content)

        # 5) Release
        async with session.put(f"{BASE}/Release/{job_id}", headers=headers) as r:
            print("Release HTTP:", r.status)

asyncio.run(main())
```

TypeScript (axios + form-data) — submit + poll

Key ideas:

- `headers: { "X-Api-Key": apiKey }`
- Use `form-data` and merge headers with `form.getHeaders()`

```
import axios from "axios";
import fs from "fs";
import FormData from "form-data";

const BASE =
  "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/";
const apiKey = "YOUR_API_KEY";
const repoId = "00000000-0000-0000-0000-000000000000";

async function run() {
  const headers = { "X-Api-Key": apiKey };

  // 1) Environment
  const env = await axios.get(BASE + "Environment", { headers });
  console.log("Environment:", env.data);

  // 2) Submit
  const form = new FormData();
  form.append("RepositoryId", repoId);
  form.append("InputFiles[0].InputFile", fs.createReadStream("./input.pdf"), {
    filename: "input.pdf",
  });

  const submit = await axios.post(BASE + "Submit", form, {
    headers: { ...form.getHeaders(), ...headers },
  });

  const jobId = submit.data;
  console.log("JobId:", jobId);

  // 3) Status
  const status = await axios.get(BASE + "Status/" + jobId, { headers });
  console.log("Status:", status.data);

  // 4) Download (binary)
  const download = await axios.get(BASE + "Download/" + jobId, {
    headers,
    responseType: "arraybuffer",
  });
  fs.writeFileSync(`output_${jobId}.bin`, download.data);
  // 5) Release
  await axios.put(BASE + "Release/" + jobId, null, { headers });
}

run().catch(console.error);
```

Java (Java 11+ HttpClient) — submit + poll + download + release

This example uses:

- `java.net.http.HttpClient` for GET/PUT
- A simple helper to build `multipart/form-data` for Submit

> Note: Multipart is verbose in raw HttpClient. Many projects prefer **OkHttp** for cleaner multipart support, but the code below works without external dependencies.

```
import java.io.*;
import java.net.URI;
import java.net.http.*;
import java.nio.charset.StandardCharsets;
import java.nio.file.*;
import java.util.UUID;

public class TransformClientJava {
    private static final String BASE =
        "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration";
    private static final String API_KEY = "YOUR_API_KEY";
    private static final String REPO_ID = "00000000-0000-0000-0000-000000000000";

    public static void main(String[] args) throws Exception {
        HttpClient client = HttpClient.newHttpClient();

        // 1) Environment
        HttpRequest envReq = HttpRequest.newBuilder()
            .uri(URI.create(BASE + "/Environment"))
            .header("X-Api-Key", API_KEY)
            .GET()
            .build();

        HttpResponse<String> envResp = client.send(envReq,
HttpResponse.BodyHandlers.ofString());
        System.out.println("Environment: " + envResp.body());

        // 2) Submit (multipart/form-data)
        Path inputFile = Paths.get("input.pdf");
        String boundary = "----TransformBoundary" + UUID.randomUUID();

        byte[] multipartBody = buildMultipart(boundary,
            "RepositoryId", REPO_ID,
            "InputFiles[0].InputFile", inputFile, "application/octet-stream"
        );

        HttpRequest submitReq = HttpRequest.newBuilder()
            .uri(URI.create(BASE + "/Submit"))
            .header("X-Api-Key", API_KEY)
            .header("Content-Type", "multipart/form-data; boundary=" + boundary)
            .POST(HttpRequest.BodyPublishers.ofByteArray(multipartBody))
            .build();

        HttpResponse<String> submitResp = client.send(submitReq,
HttpResponse.BodyHandlers.ofString());
        String jobId = submitResp.body().replace("\"", ""); // If server returns
JSON string UUID
        System.out.println("JobId: " + jobId);

        // 3) Status/{jobId}
        HttpRequest statusReq = HttpRequest.newBuilder()
            .uri(URI.create(BASE + "/Status/" + jobId))
            .header("X-Api-Key", API_KEY)
            .GET()
            .build();

        HttpResponse<String> statusResp = client.send(statusReq,
HttpResponse.BodyHandlers.ofString());
        System.out.println("Status: " + statusResp.body());

        // 4) Download/{jobId}
        HttpRequest dlReq = HttpRequest.newBuilder()
            .uri(URI.create(BASE + "/Download/" + jobId))
            .header("X-Api-Key", API_KEY)
            .GET()
            .build();

        HttpResponse<byte[]> dlResp = client.send(dlReq,
HttpResponse.BodyHandlers.ofByteArray());
        Files.write(Paths.get("output_" + jobId + ".bin"), dlResp.body());
        System.out.println("Downloaded to output_" + jobId + ".bin");

        // 5) Release/{jobId}
        HttpRequest releaseReq = HttpRequest.newBuilder()
            .uri(URI.create(BASE + "/Release/" + jobId))
            .header("X-Api-Key", API_KEY)
            .PUT(HttpRequest.BodyPublishers.noBody())
            .build();

        HttpResponse<String> releaseResp = client.send(releaseReq,
HttpResponse.BodyHandlers.ofString());
        System.out.println("Release HTTP: " + releaseResp.statusCode());
    }

    // Minimal multipart builder for:
```

```
    // - One string field
    // - One file field
    private static byte[] buildMultipart(
        String boundary,
        String repoFieldName, String repoValue,
        String fileFieldName, Path filePath, String fileContentType
    ) throws IOException {

        ByteArrayOutputStream out = new ByteArrayOutputStream();
        String CRLF = "\r\n";

        // Text field: RepositoryId
        out.write(("--" + boundary + CRLF).getBytes(StandardCharsets.UTF_8));
        out.write(("Content-Disposition: form-data; name=\"" + repoFieldName + "\""
+ CRLF).getBytes(StandardCharsets.UTF_8));
        out.write((CRLF).getBytes(StandardCharsets.UTF_8));
        out.write((repoValue + CRLF).getBytes(StandardCharsets.UTF_8));

        // File field: InputFiles[0].InputFile
        String filename = filePath.getFileName().toString();
        out.write(("--" + boundary + CRLF).getBytes(StandardCharsets.UTF_8));
        out.write(("Content-Disposition: form-data; name=\"" + fileFieldName + "\";
filename=\"" + filename + "\"" + CRLF)
            .getBytes(StandardCharsets.UTF_8));
        out.write(("Content-Type: " + fileContentType +
CRLF).getBytes(StandardCharsets.UTF_8));
        out.write((CRLF).getBytes(StandardCharsets.UTF_8));
        out.write(Files.readAllBytes(filePath));
        out.write((CRLF).getBytes(StandardCharsets.UTF_8));

        // End boundary
        out.write(("--" + boundary + "--" +
CRLF).getBytes(StandardCharsets.UTF_8));

        return out.toByteArray();
    }
}
```

C# (.NET 6+) — submit + poll + download + release

This example uses:

- `HttpClient` with `DefaultRequestHeaders`
- `MultipartFormDataContent` for Submit (clean + recommended)

```
using System;
using System.IO;
using System.Net.Http;
using System.Net.Http.Headers;
using System.Threading.Tasks;

class TransformClientCSharp
{
    private static readonly string Base =
        "https://transform-services-
url/Adlib/ClientIntegrationService/api/v2/ClientIntegration/";
    private static readonly string ApiKey = "YOUR_API_KEY";
    private static readonly string RepoId = "00000000-0000-0000-0000-000000000000";

    static async Task Main()
    {
        using var http = new HttpClient();
        http.DefaultRequestHeaders.Add("X-Api-Key", ApiKey);

        // 1) Environment
        var env = await http.GetStringAsync(Base + "Environment");
        Console.WriteLine("Environment: " + env);

        // 2) Submit (multipart/form-data)
        using var form = new MultipartFormDataContent();

        form.Add(new StringContent(RepoId), "RepositoryId");

        var filePath = "input.pdf";
        var fileStream = File.OpenRead(filePath);
        var fileContent = new StreamContent(fileStream);
        fileContent.Headers.ContentType = new
MediaTypeHeaderValue("application/octet-stream");

        // Field name must be: InputFiles[0].InputFile
        form.Add(fileContent, "InputFiles[0].InputFile",
Path.GetFileName(filePath));

        // Optional per-file metadata example:
        form.Add(new StringContent("Source"),
"InputFiles[0].FileMetadata[0].Name");
        form.Add(new StringContent("Uploaded via C#"),
"InputFiles[0].FileMetadata[0].Value");

        var submitResp = await http.PostAsync(Base + "Submit", form);
        submitResp.EnsureSuccessStatusCode();

        var jobIdRaw = await submitResp.Content.ReadAsStringAsync();
        var jobId = jobIdRaw.Replace("\"", ""); // if response is JSON string
        Console.WriteLine("JobId: " + jobId);

        // 3) Status/{jobId}
        var status = await http.GetStringAsync(Base + "Status/" + jobId);
        Console.WriteLine("Status: " + status);

        // 4) Download/{jobId}
        var outputBytes = await http.GetByteArrayAsync(Base + "Download/" + jobId);
        await File.WriteAllBytesAsync($"output_{jobId}.bin", outputBytes);
        Console.WriteLine($"Downloaded output_{jobId}.bin");
        // 5) Release/{jobId}
        var releaseResp = await http.PutAsync(Base + "Release/" + jobId, content:
null);
        Console.WriteLine("Release HTTP: " + (int)releaseResp.StatusCode);
    }
}
```

Quick copy/paste: minimal "headers + base URL" template

Java

```
HttpRequest req = HttpRequest.newBuilder()
  .uri(URI.create(BASE + "/Environment"))
  .header("X-Api-Key", API_KEY)
  .GET()
  .build();
```

C#

```
http.DefaultRequestHeaders.Add("X-Api-Key", apiKey);
var env = await http.GetStringAsync(baseUrl + "Environment");
```
