

Technical Specification: Office Translator v3.0

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Table of Contents

1. Introduction	 1
2. Installation and Setup	 2
3. Translation Engine	 3
4. Format Preservation	 4
5. Quality Assurance	 5
6. Performance and Scaling	 6
7. API Reference	 7
8. Troubleshooting	 8

For the latest version of this document, visit:

<https://docs.office-translator.example.com/v3>

Important notice

This is a pre-release document.
Subject to change without notice.

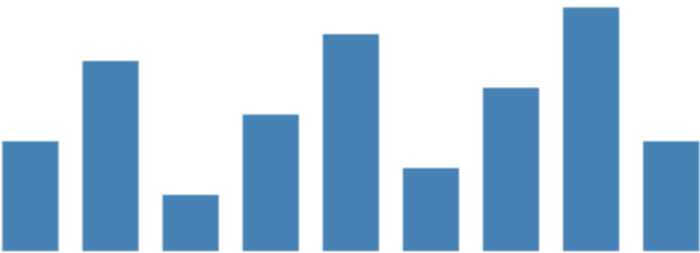
1. Introduction

Office Translator is a SaaS platform for translating office documents (Word, Excel, PowerPoint, PDF)

This document describes the public API, configuration options, and best practices for integrating Office Translator

Pricing: <https://office-translator.example.com/pricing>

Sample chart Translation volume



2. Installation and Setup

To get started, create an account on our platform and obtain an API key. The API key must be included in all requests.

2.1 Quick Start

Step 1: Sign up at <https://app.office-translator.example.com>

Step 2: Generate an API key in the dashboard

Step 3: Make your first translation request:

```
curl -X POST https://api.office-translator.example.com/v1/translate \
  -H 'Authorization: Bearer YOUR_API_KEY' \
  -F 'file=@document.docx' \
  -F 'target_lang=fr' \
  -F 'source_lang=en'
```

Step 4: Download the translated file when the job completes
(see the Quickstart guide for details)

3. Translation Engine

Our translation engine combines multiple models and techniques to deliver high-quality output across

3.1 Supported Languages

- English, French, Spanish, German, Italian, Portuguese, Dutch
- Russian, Polish, Czech, Romanian, Hungarian, Greek, Ukrainian
- Arabic, Hebrew, Persian, Urdu, Turkish, Kurdish
- Chinese (Simplified and Traditional), Japanese, Korean, Vietnamese, Thai
- Hindi, Bengali, Tamil, Telugu, Marathi, Gujarati, Punjabi
- Swahili, Afrikaans, Zulu, Amharic, Yoruba, Igbo, Hausa

3.2 Provider Selection

You can choose between several translation providers depending on your needs: Google Translate (free tier)

For a comparison of providers, [see our benchmark report](#)

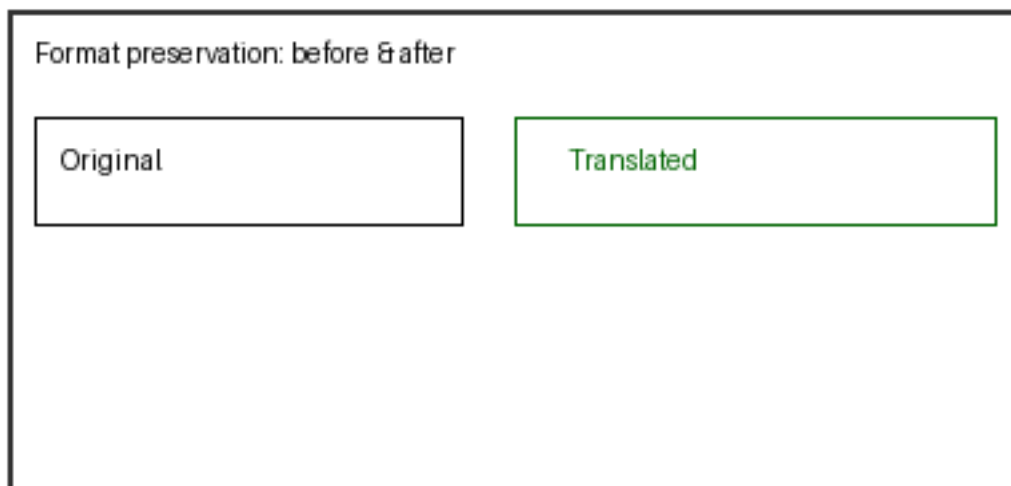
4. Format Preservation

Format preservation is a core feature of Office Translator. Unlike raw translation APIs that return pl

- Hyperlinks (URLs are kept verbatim; only the visible text is translated)
- Footnotes and endnotes (collected, translated, and re-injected)
- Cell comments in Excel
- Embedded charts (titles, axis labels, category names)
- SmartArt diagrams in PowerPoint
- Headers, footers, and page numbers
- Tables (with formatting and merged cells)
- Images (never rasterized away during redaction)

For a complete list of supported features, see:

<https://docs.office-translator.example.com/format-support>



5. Quality Assurance

Every translation goes through three quality layers before being delivered to the user:

L0 (Pattern detection)

Detects language confusion, length anomalies, and prompt leaks. No API call.

L1 (LLM judge)

Sends 5 sample chunks to a cheap LLM (deepseek-chat) for a binary pass/fail verdict. ~\$0.0003/job.

L2 (Pro judge, 8 dimensions)

Sends 15 sample chunks to gpt-4o for fine-grained evaluation across accuracy, fluency, terminology, style, and other dimensions.

5.1 Metrics

All quality scores are exposed as Prometheus metrics for monitoring and alerting. See the metrics endpoint

6. Performance and Scaling

Office Translator is built on a horizontally scalable architecture. Translation workers process jobs in

Document size	Avg latency (s)	Throughput (docs/min)
< 1 page	0.4	150
1-5 pages	1.2	50
5-20 pages	3.8	16
20-100 pages	12.5	5
> 100 pages	45.0	1

6.1 Caching

Repeated translations of the same content are served from cache, reducing API costs by up to 40% on typical

7. API Reference

The full API reference is available on our developer portal. Key endpoints:

POST /v1/translate	Submit a document for translation
GET /v1/translations/{id}	Get the status of a translation job
GET /v1/download/{id}	Download the translated file
GET /v1/jobs	List all jobs for the authenticated user
GET /v1/glossaries	List available glossaries
POST /v1/glossaries	Create a new glossary

For interactive API documentation, see:

<https://api.office-translator.example.com/docs>

8. Troubleshooting

Common issues and their solutions are documented in our troubleshooting guide. If you encounter

<https://docs.office-translator.example.com/troubleshooting>