Language Weaver Edge

AI-powered machine translation that puts enterprise security first

Built for organizations where data security, performance and adaptability are non-negotiable.

Sometimes enterprises need extra control

Enterprises and government organizations in regulated or security-sensitive sectors – such as legal, life sciences, defense and law enforcement – manage growing volumes of multilingual data. From case files and reports to sensitive documents, open sources and communications, everything must be processed quickly and securely.

Language Weaver Edge delivers enterprise-grade machine translation in a self-hosted environment to ensure maximum security and compliance. Designed for secure internal communication and content intelligence, it combines scalability and performance to support high-volume workflows.

Ideal for eDiscovery, pharmacovigilance, counterintelligence and regulatory reporting, Language Weaver Edge helps teams unify multilingual data into a single working language. The result: faster review cycles, stronger compliance readiness and more actionable insights – all while keeping information fully under your control.

Language Weaver Edge delivers

To ensure both performance and security on your own terms, a self-hosted solution like Language Weaver Edge is the answer. It's a powerful machine translation solution that can be deployed on-premises or in a private cloud, keeping the content it processes securely within your organization's network. It's scalable, adaptable and intuitive to use and manage, enabling you to address your greatest multilingual content and data challenges cost-effectively.

Expansive language coverage with intelligent adaptability

Language Weaver Edge offers comprehensive language coverage, with new languages added on a regular basis and more than 3,500 possible language combinations supported.

The solution's adaptive models can be trained using your content assets and customizable dictionaries to ensure consistent terminology, brand voice and domain accuracy. Continuously learning from user feedback, these models automatically evolve to reflect your organization's unique style and preferences, delivering high-quality translations.

Real-time quality estimation provides instant insight into translation accuracy, while automatic post-editing uses advanced AI to refine lower-quality output. Together, these capabilities create a continuous feedback loop that ensures Language Weaver delivers translations that are not only fast and secure, but consistently accurate and fit for purpose.

Key reasons for using Language Weaver Edge

It's an enterprise-ready solution that:

- Offers the highest levels of security, data protection and control

- Fits easily into existing IT infrastructure

- Is optimized for performance and scalability

- Is fully adaptable, including auto-adaptive capabilities to continuously enhance performance
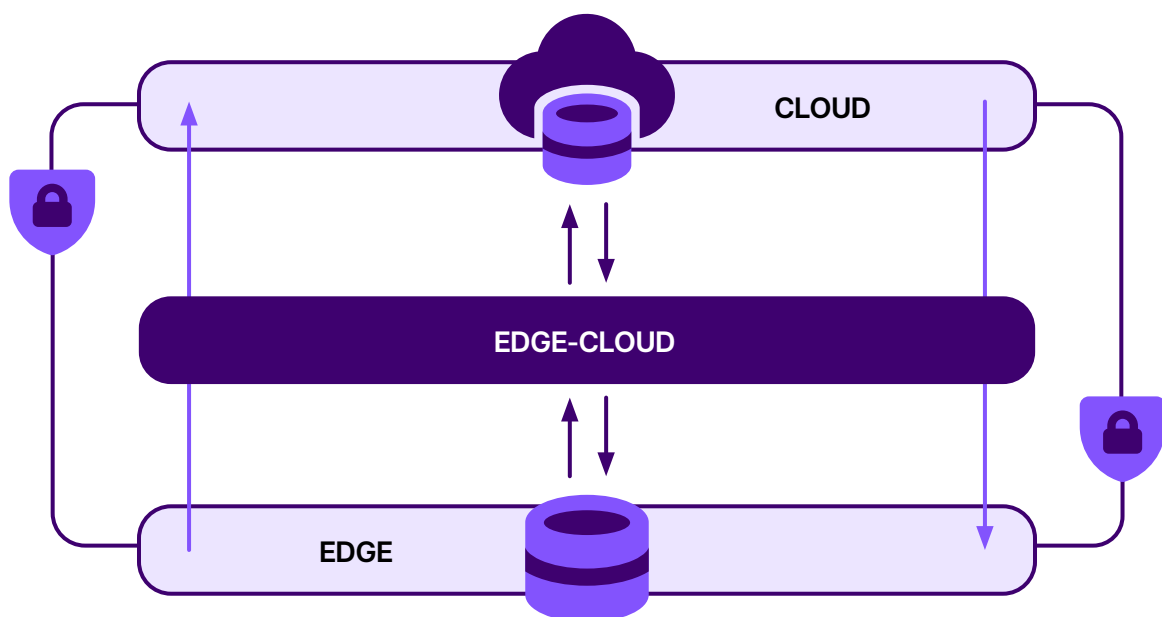
Language Weaver Edge

Deployment flexibility through hybrid architecture

Language Weaver Edge can be complemented by Language Weaver Cloud to form a complete solution built with a hybrid edge-cloud architecture. Both platforms, cloud and self-hosted, offer the same state-of-the-art neural machine translation capabilities and market-leading adaptability.

Language Weaver Edge lets you secure sensitive tasks behind corporate firewalls and control performance with dynamic licensing and hardware optimization. It is built for volume.

A hybrid edge-cloud deployment lets you keep models and data on-premises while leveraging the cloud for high-throughput processing. This unified environment ensures security, control, and scalability, with all content deleted immediately after processing to keep your translations secure.

Language Weaver Cloud provides an on-demand environment that is easy to roll out for enterprise-wide use. While the cloud platform is secure by design, there may be certain regulatory requirements that make it less suitable for highly sensitive materials.

Language Weaver Edge in action

Made-in-China.com appreciates the rich experience offered by Language Weaver Edge and the many language pairs it supports. Marcel Ning, MIC Business Manager for Made-in-China.com, comments:

"[Language Weaver] has transformed the way Made-in-China.com communicates with customers. … [It's] ideal for translating our high volume of information rapidly into all our customers' languages. Their response was quick, and the whole project has achieved the desired goals."

Language Weaver Edge features for your business

State-of-the-art machine translation and linguistic AI

- More than 3,500 language combinations (see our supported languages here)

- Automatic language detection for a streamlined user experience

- Quality estimation to inform translation workflow decisions based on actionable data points

- Instant, automated summarization to aid and accelerate content analysis

- Automatic post-editing combines adaptive models and quality estimation with LLMs to deliver continuous quality improvement

- Built-in Automatic Speech Recognition (ASR) for audio transcription and translation

Standout adaptive capabilities to tailor your AI

- Support for dictionaries and terminology lists to enforce key vocabulary such as brand names and industry- and domain-specific terms

- Direct user feedback to suggest better translations, with built-in approval workflows to improve the model and enjoy those improvements immediately

- Adaptive language pairs use existing bilingual data, translation assets and user feedback to continually and automatically improve models

Security and control

- Deployment behind your firewall as an on-premises application or in a private cloud

- Hybrid deployment with Language Weaver Cloud

- Authentication using Active Directory or LDAP or through application-level username/password

- SAML-based single sign-on with external identity providers

- Ease of administration and maintenance via intuitive admin GUI

- Robust reporting and monitoring to track use across your organization

Scalability and lower total cost of ownership

- Efficient use of computing resources with ability to run neural models using CPU or LLM models using a single, lightweight GPU

- Support for multiple installation scenarios (single or multi-server, containers) to address a wide variety of scenarios and IT requirements

- Dynamic processing unit allocation to scale speed with demand

- Unlimited translation throughput, removing cost concerns for high-scale use cases

- Control of computational resources with dynamic licensing and three modes of hardware-based optimization

- Support for deployment to Kubernetes to enable real-time, load-based auto-scaling and failover management for high availability

Ease of use and integration

- Intuitive, browser-based UI for direct use

- Integration with supported applications such as Trados or MS Office, or a translation management system (TMS) workflow

- Workflow automation using the REST API, .NET and Embedded C++ APIs for integration

- Integration with Text-to-Speech (TTS) solutions to provide full Speech-to-Speech capabilities

- Support for a wide variety of file formats: Microsoft Office, PDF, .txt, common image formats, HTML, XML and more

- Part of a growing ecosystem of partner technologies such as LiveAgent, DRUID, Cassia Content Systems and more

Digital intelligence company Cellebrite

Cellebrite's customers are governments and businesses working with highly sensitive data to prevent criminal activity. Language Weaver provides Cellebrite's Smart Translator product with the depth of languages, flexible fit, deployment, easy integration and proven security to understand the words that criminals leave behind.

Why Language Weaver Edge

Language Weaver Edge brings secure-by-design machine translation to modern global enterprises and government organizations, seamlessly fitting within any IT environment. It is:

- State-of-the-art neural machine translation technology developed by expert linguists, professional translators and research scientists

- A mature and reliable solution requiring little administrative overhead to maintain high service levels

- Built on a highly scalable architecture that allows for multi-server deployment options on commodity hardware

- Exceptionally adaptable, with breakthrough capabilities including the ability to leverage direct user feedback, automated approval workflows and translation memories to continuously enhance the AI model and translation performance

- Complemented by Language Weaver Cloud for a hybrid solution, enabling you to globalize functions as diverse as internal communication, eDiscovery, analytics and customer experience

Get started with Language Weaver Edge

languageweaver.com

About us

RWS is a content solutions company, powered by technology and human expertise. We grow the value of ideas, data and content by making sure organizations are understood. Everywhere.

Our proprietary technology, 45+ AI patents and human experts help organizations bring ideas to market faster, build deeper relationships across borders and cultures, and enter new markets with confidence – growing their business and connecting them to a world of opportunities.

It's why over 80 of the world's top 100 brands trust RWS to drive innovation, inform decisions and shape brand experiences.

With 60+ global locations, across five continents, our teams work with businesses across almost all industries. Innovating since 1958, RWS is headquartered in the UK and publicly listed on AIM, the London Stock Exchange regulated market (RWS.L).

More information: rws.com

Hello, world.