RWS
Language Weaver

Enterprise-grade, secure neural machine translation

Language Weaver Edge uses state-of-the-art proprietary neural machine translation (NMT) and market-leading adaptability to accelerate government and public sector enablement of content-intensive business processes.

As the need to deliver information globally in near real time increases, the world's largest governments need innovative solutions to keep up. Massive amounts of content – emails, web, intelligence, OSINT, C3 information and user-generated content – fuel the demand for a high-performing and scalable solution to manage content in multiple languages.

Only machine translation (MT) can deliver the ability to automate translation of content at scale, including in real time.

For those who want a secure on-premises solution that offers a scalable alternative to free or low-cost web-based portals, Language Weaver® Edge is an option. If MT is supporting a content-intensive business process like Command and Control, OSINT intelligence, eDiscovery, forensics or cyber threat intelligence, you need a workhorse solution that won't fail. And if your content is sensitive – such as counterintelligence – the MT solution needs to be fully within your control behind your organization's secure firewall.

To get both performance and security, an on-premises solution like Language Weaver Edge is the answer.

Language Weaver Edge offers a powerful MT solution that can be deployed on-premises or in a private cloud, keeping the content processed through MT secure within the organization's network.

Language Weaver Edge is highly scalable, adaptable, easy to deploy and intuitive to use and manage, enabling organizations to address even their greatest global content information challenges cost-effectively.

Language Weaver Edge is complemented by Language Weaver Cloud, a cloud-based MT environment, to form a complete, deployment-agnostic MT solution built with a unique edge-cloud architecture.

Key reasons customers use Language Weaver Edge

- Enterprise-ready solution

- Security, data protection and control

- Fits into existing IT infrastructure

- Optimized for performance and quality

- Fully adaptable, including intelligent real-time adaptation

Along with the US Government – IC, DoD and civilian agencies as customers – there are 16+ allied foreign governments that also depend on **Language Weaver Edge**.

Features

Innovation and adaptation ensure quality

- Built using state-of-the-art proprietary NMT 2.0 with 130+ uni-directional language pairs and user-defined dictionaries and terminology lists

- Includes adaptable language pairs that users can train and deploy within the on-premises application or to the cloud

- Language-pair chaining enables users to address low-resource languages easily

- Adaptation provides a controlled real-time update where users can submit translation suggestions and administrators can review and implement

- Automatic quality assessment provides transparency and insight into potential issues

Security and control

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

- Deploy a hybrid solution together with cloud-based Language Weaver

- Authenticate using Active Directory (AD) or LDAP or through application-level username/password

- Enable SAML-based single sign-on (SSO) with external identity providers

- Use the intuitive admin GUI for ease of administration and maintenance

- Track usage throughout your organization with robust reporting and monitoring

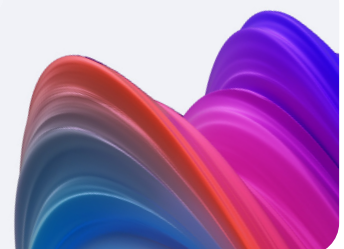- Scale speed with usage through dynamic processing unit allocation

Scale with lower total cost of ownership (TCO)

- Efficient use of computation resources with ability to run neural models using CPU (vs GPU)

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

- Computational resources are controlled with dynamic licensing and three modes of hardware-based optimization

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

Ease of use and integration

- Use directly through an intuitive, browser-based UI, through a supported application such as Trados or MS Office, or as part of a translation management system (TMS) workflow

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

- Integrate with and automate any content workflow using the REST API, .NET and Embedded C++ APIs

- Integrate with automatic speech recognition (ASR) solutions to address use cases where audio translation is required

- Easy OEM fuels a growing ecosystem of partner technologies such as LiveAgent, DRUID, Cassia Content Management and more

You can find a full list of features, system requirements, deployment options and more in the **Language Weaver documentation**

Broad language coverage

RWS offers the largest language coverage for commercially available solutions, with new languages added on a regular basis. For government customers, we recommend trained language pairs that understand the domain or style of the particular agency or organization. This helps to ensure that each single translation is appropriate for the organization and its communication needs.

While improving on existing translation systems, RWS is committed to ongoing innovation and continues to expand language coverage. All language pairs leverage NMT.

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 the criminals leave behind.

Standard and adapted language pairs

Besides standard out-of-the-box language pairs, Language Weaver offers the ability to adapt language pairs to support the varied needs of our clients.
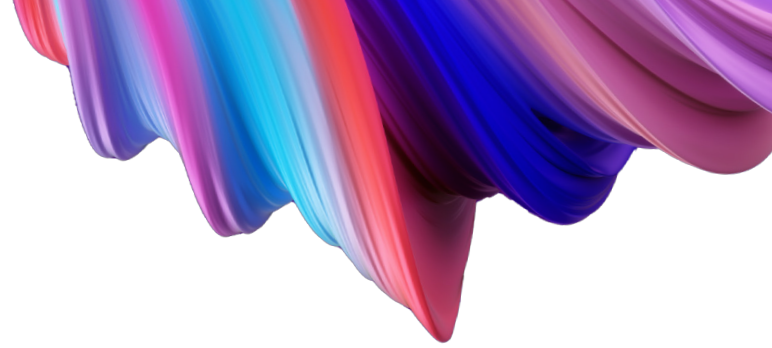
Standard language pairs can be guided using dictionaries and termbases. Adapted language pairs are trained (and re-trained) within the application using any pertinent content, with the language models being deployed directly into the application for use. These adapted language pairs can also be deployed to the cloud by leveraging the edge-cloud architectural capabilities of the Language Weaver solution.

For those looking for expertise along with technology, RWS provides world-class linguists and support resources, also delivering custom and expert consulting options.

RWS offers 130+ variations to and from English and the ability to translate select language sets to and from Japanese, German, Spanish, French and Arabic.

Get an up-to-date list of languages supported:
rws.com/language-weaver/supported-languages

Why choose Language Weaver Edge

RWS brings the capabilities of industrial strength MT to the modern, content-intensive enterprise. It fits within any IT environment and is adaptable, flexible and highly scalable. Language Weaver Edge is:

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

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

- A state-of-the-art NMT 2.0 solution developed by expert linguists and experienced professional translators

- One-of-a-kind and user-driven, offering adaptability with the introduction of adapted language pairs

- Supported by experts who can train models using customer data to address customer language nuances and quality requirements

Language Weaver Edge is complemented by **Language Weaver Cloud**, an easily deployed, secure cloud-based machine translation solution that enables organizations to globalize content-intensive business processes such as internal communication, analytics and customer experience.

To learn more about Language Weaver for government and public sector visit
rws.com/language-weaver/government-solutions/

About RWS

For US Government customers, SDL Inc. is registered in SAM.gov with UI# NTLJMHXJF217.
Carahsoft Technologies, Inc. holds our GSA MAS, Army CHESS and NASA SEWP contract vehicles.

RWS Holdings plc is a unique, world-leading provider of technology-enabled language, content and intellectual property services. Through content transformation and multilingual data analysis, our combination of AI-enabled technology and human expertise helps our clients to grow by ensuring they are understood anywhere, in any language.

Our purpose is unlocking global understanding. By combining cultural understanding, client understanding and technical understanding, our services and technology assist our clients to acquire and retain customers, deliver engaging user experiences, maintain compliance and gain actionable insights into their data and content.

Over the past 20 years we've been evolving our own AI solutions as well as helping clients to explore, build and use multilingual AI applications. With 40+ AI-related patents and more than 100 peer-reviewed papers, we have the experience and expertise to support clients on their AI journey.

We work with over 80% of the world's top 100 brands, more than three-quarters of Fortune's 20 'Most Admired Companies' and almost all of the top pharmaceutical companies, investment banks, law firms and patent filers. Our client base spans Europe, Asia Pacific and North and South America. Our 65+ global locations across five continents service clients in the automotive, chemical, financial, legal, medical, pharmaceutical, technology and telecommunications sectors.

For further information, please visit: **www.rws.com**