



SDL Inc., part of RWS Group

Capability Statement

**Language Weaver:
The last mile in machine translation**

SDL Inc.

CAGE code: 4UJYH9
DUNS: 044881600
Federal tax ID (TIN): 04-3457981

SDL XyEnterprise, LLC

CAGE code: 0BWK4
DUNS: 052727208
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Contents

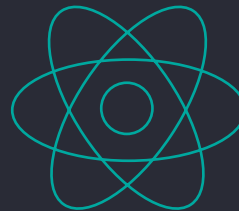
Contact information	1
Our world is changing	3
Overview of RWS	4
Language Weaver's clients and government use cases.....	7
◦ Secure machine translation solutions for government, intelligence and law enforcement.....	7
◦ Why choose a tailored machine translation solution?.....	8
◦ Case study: How the US Army broke down language barriers on the Korean Peninsula with Language Weaver	9
Suggestions for next steps.....	10

Our world is changing...

...and at RWS we've been transforming to provide solutions to address our clients' new content challenges



Rise of AI/big data solutions is scaling up government information (volumes, domains, formats, language requirements)



Digital transformation is reaching even the most conservative agencies



Data security is an increasing concern for every agency



Open-source intelligence (OSINT), as additional insights for threat intelligence and allied command and control, is proliferating

Overview of RWS



Publicly traded company (LSE:RWS)

- Founded in 1958
- Annual revenue: \$800M+ (2021)
- A&D HQ: Wakefield, MA
- 7,600+ employees
- 80+ offices

Enabling companies to communicate with confidence in 250+ languages

Trusted by 90 of the top 100 global brands



AI and machine learning labs, Los Angeles, California

Government, Aerospace and Defense headquarters, Wakefield, Massachusetts

Enterprise technical data management and delivery solution



Innovation and research leader in linguistic AI for the enterprise

Provider of the world's most-used translation technology

Working with some of the largest federal system integrators and technology suppliers

Powering results for 7 of the top 10 global aerospace and defense companies

Global network to support global clients

Industries served: defense, technology, legal, pharmaceutical, medical, chemical, automotive, travel and hospitality, telecommunications, retail and ecommerce, energy and finance

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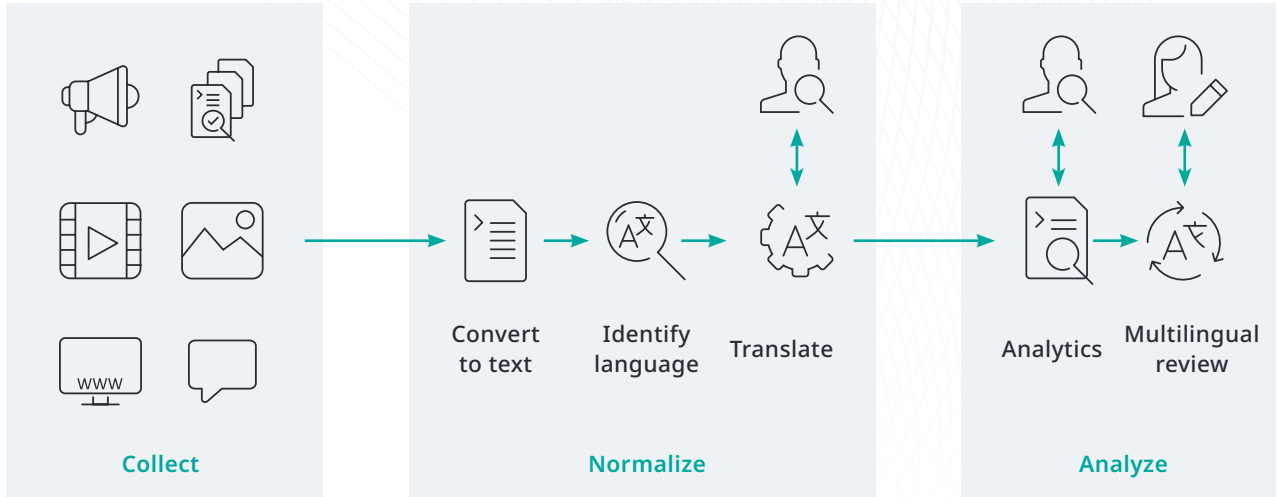
RWS Group is a world-leading supplier of global language services and language and content technologies. We are publicly listed and traded on the London Stock Exchange (LSE:RWS) and have a long track record of financial stability.

RWS Language Weaver is the world's most powerful, comprehensive and adaptable neural machine translation platform. We provide secure enterprise machine translation solutions, adapted to your content – empowering you to communicate without language barriers. Language Weaver can integrate with content intelligence applications to minimize the effort required to translate multilingual content.

RWS Language Services is a world-leading language service provider, helping clients to create, translate and deliver content across 250+ languages. Our global team of linguists, project managers, subject-matter experts and localization professionals work closely with clients to ensure their multilingual content and communications are compelling, accurate and consistent.

As a result, we are relied upon by 90 of the top 100 global brands, including numerous Fortune 500 and Global 2000 corporations, the US Federal Government through the Department of Defense, federal law enforcement, the Intelligence Community and the Department of Homeland Security, and civilian agencies.

Transforming raw multilingual big data into actionable intelligence



Volume
Velocity
Variety



Relevance



Language Weaver's clients and government use cases

Trusted by government, military and commercial clients, our language solutions are relied upon by the biggest of the big, including giants in the technology and aerospace and defense sectors. At RWS, we deliver everything – translation services and linguistic AI, language consulting services and embedded technologies.

Secure machine translation solutions for government, intelligence and law enforcement

Our state-of-the-art neural machine translation and natural language processing technologies allow government departments and agencies to function effectively across language barriers and exploit multilingual content as quickly as it arrives. Our solution covers:

- Mobile and digital forensics in investigations requiring rapid translation of information extracted from target devices
- Open-source intelligence (OSINT) and broadcast monitoring for actionable intelligence, regardless of language, for publicly available information
- Signals intelligence (SIGINT) in support of cross-language, cross-border military intelligence activities
- Cyber threat intelligence (CYBINT) for analysis of multilingual conversations collected from the dark and open web
- Lawful interception for analysis of criminal communications irrespective of language
- eDiscovery and data analytics for multilingual document review in international cases
- Linguistic AI for intelligence, surveillance and reconnaissance (ISR) and threat intelligence
- Multilingual intelligent virtual assistant, powering the chatbot for citizen self-service or robotic process automation (RPA)

Why choose a tailored machine translation solution?

General-purpose machine translation solutions may seem like a cost-efficient option, but in reality they are not a good fit for the requirements of government, aerospace and defense. They lack many of the essential benefits provided by our solution, such as:



Security

Language Weaver Edge provides a unique set of deployment options, including private cloud and on-premises deployments, and can meet the strictest data residency and privacy requirements. All the Language Weaver Edge components, including the translation engines, can be safely deployed within the confines of your IT infrastructure, and can be isolated and secured as needed. Even on our general-purpose enterprise platform, Language Weaver, you retain complete control of your content: we do not store the content submitted for translation, nor do we claim the right to manipulate or use it.



Scalability

Language Weaver Edge is designed to provide a resident, neural machine translation service from a single device to a multi-host environment. It can be deployed for a single language pair and a basic performance level of 2,000 words per minute, and scaled as needed to 150+ language pairs with a performance of 100,000 words per minute. Whether for a single laptop, a dedicated digital forensic platform, a tactical field mobile device, a cluster of servers, a virtual machine or a Kubernetes deployment in the cloud, Language Weaver Edge can be scaled and configured to meet your needs – with a competitive total cost of ownership.



Adaptability

Large cloud service providers to the US Government can provide a pure technology solution, but they don't offer in-depth linguistic expertise. We do. At Language Weaver, we have access to thousands of professional linguists, allowing us to create custom dictionaries, train custom MT models or provide machine translation quality evaluation. We also offer machine translation post-editing and full-on human translation, review and proofreading services. In order to take advantage of the available human expertise – both internal and external – we've designed our machine translation platforms to optimize all aspects of the human-in-the-loop model, where AI can learn from the human experts to continuously improve its performance. Recently, we have introduced first-in-class auto-adaptive MT models, where the machine monitors human feedback and decides when, where and how best to improve itself.

Case study: How the US Army broke down language barriers on the Korean Peninsula with Language Weaver

US Army personnel stationed in South Korea work closely with South Korean Army personnel. The language barrier that they face can lead to misunderstandings, but the translation resources of the 2nd Infantry Division/ROK-US Combined Division are limited and paid professional interpreters are only available to high-level officers.

The challenge

The US Army needed to provide:

- Quick, high-quality document translation between Korean and English
- Instant translation within the US Army's chat client software
- A secure translation solution for all personnel

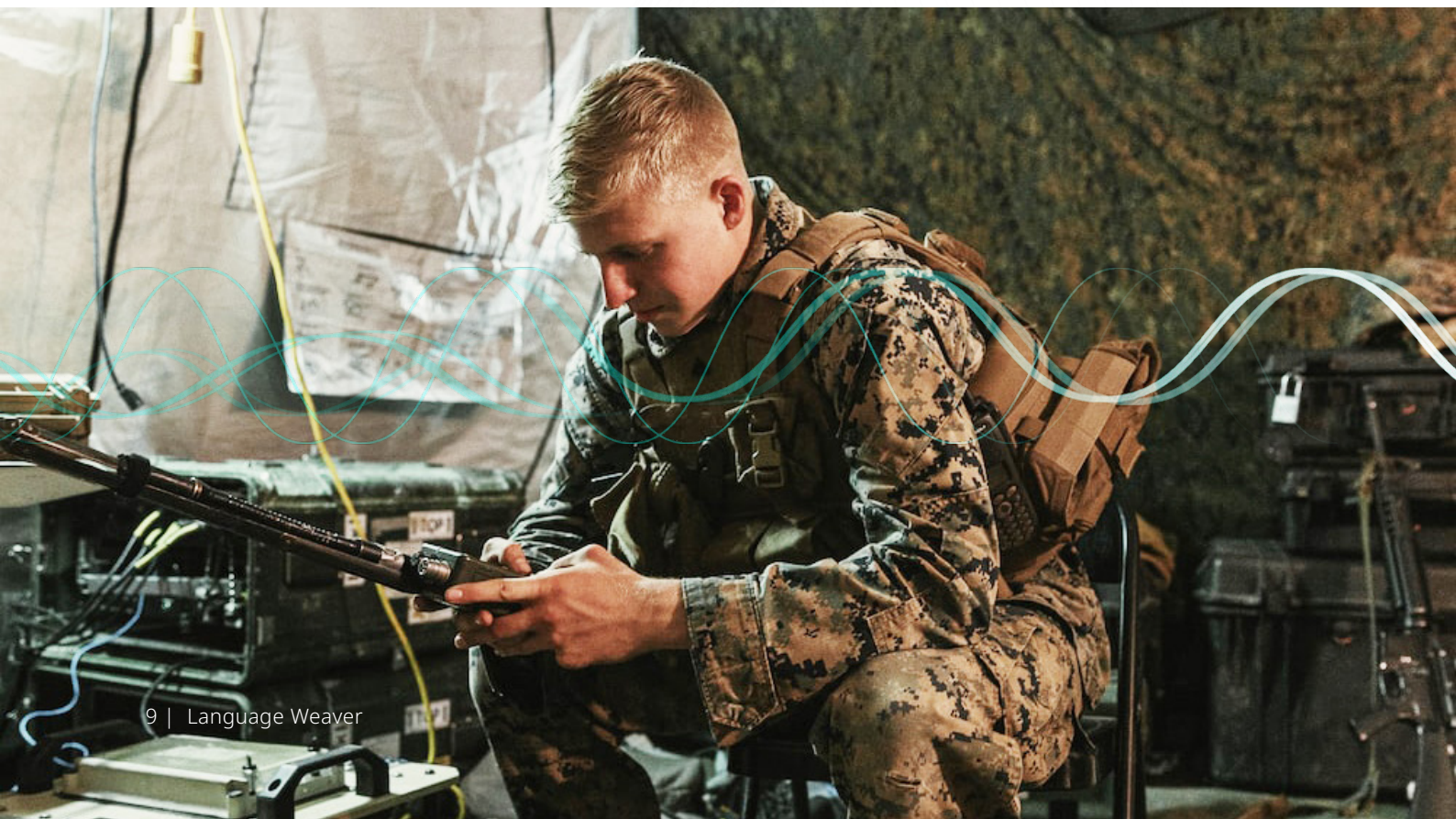
The solution

RWS worked closely with the US Army to identify a machine translation solution that would meet their linguistic and security requirements. After a trial and a review, the US Army deployed Language Weaver with a chat client connector and a browser-based UI.

The results

Now, all personnel have access to instant chat translation, and document translation time has gone from up to two months to just one day. Translation quality has also improved, allowing personnel to avoid misunderstandings and resolve issues more quickly.

Visit [U.S. Army in Korea Uses Language Weaver \(rws.com\)](https://www.rws.com) for the full case study.



Suggestions for next steps

Under a mutual NDA, discover and investigate common opportunities to partner for machine translation solutions. As a partner, we can help you differentiate your IT solution offering, increasing your chances of winning a future bid for contract.

Please see [Language Weaver Connector Hub Ecosystem](#) for a list of our API connectors.

An RWS partnership can have a measurable business impact within global aerospace and defense. With our language technologies and services, you can cover a wide range of needs, including:



Language technology use cases

- Secure multilingual chat, field communications, support and joint exercises
- Secure instantaneous document translation
- Multilingual virtual assistant
- Secure global external communications
- Enhanced foreign military sales support
- Reduction of language barriers between joint forces for command and control



Language services

- Native-language technical manuals / IETMs
- Native-language technical training materials
- Elimination of two years of English training
- Increased operational readiness

Capability Statement

Throughout our evolution, we have focused on providing our clients with the best-value services, backed by innovative technology. Partnering with our clients is always a top priority. We are committed to ensuring client and partner satisfaction, which we measure in a variety of ways, including regular surveys, quarterly business reviews and annual renewals consistently being exercised.

To learn more, visit rws.com/language-weaver
or contact us at cbreeding@rws.com to get started right away.

About RWS

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 unique combination of technology and cultural 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.

Our clients include 90 of the world's top 100 brands, the top 20 pharmaceutical companies and 19 of the top 20 patent filers. Our client base spans Europe, Asia Pacific, and North and South America. We work in the automotive, chemical, financial, legal, medical, pharmaceutical, technology and telecommunications sectors, which we serve from 80+ global locations across five continents.

Founded in 1958, RWS is headquartered in the UK and publicly listed on AIM, the London Stock Exchange regulated market (RWS.L).

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

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