

Case Study

Neural machine translation for government: intelligence and military use cases



These examples represent work performed for clients of SDL, which is now part of RWS Holdings plc



The background image shows two US Army soldiers in camouflage uniforms and helmets, viewed from behind, standing in the back of a vehicle at night. A large, light-colored tarp is draped over the top of the vehicle. A teal arc highlights the soldiers' heads and upper bodies. A dotted white line starts from the top of the teal arc and points towards the top left. A white circle highlights a point on the teal arc, with a line connecting it to the RWS logo in the bottom right corner.

Use case

United States Army

United States Army:

2nd Infantry Republic of Korea (ROK) – United States (U.S.) Combined Division

Business need

Wanting to overcome the language barrier between its 10,000 American and Korean personnel, this combined division was looking for a solution that would:

- Be fast enough for practical use in translating documents to a high quality
- Connect with its existing chat client software – to avoid relying on a very limited number of interpreters
- Offer better quality than word-by-word translation using dictionaries
- Satisfy military security requirements

Solution

- Thorough assessment of on-premises deployment of SDL Machine Translation (now Language Weaver®), with all security and quality criteria passed
- Deployment in ~2 days, including integration with the chat software
- Reduction of document translation time from up to 2 months (before the solution) to 1 day, with better translation quality
- Instant chat translation for all, enabling faster communication and resolution of issues, and fewer misunderstandings

Use case




Industry:
Aerospace and defense



Application:
Communication for multinational peace-keeping



Size:
10,000 personnel



Use case

Cellebrite

Cellebrite

Digital intelligence for a safer world

Business need

As part of its mission to deliver innovative technology solutions to its customers dealing with investigative work, Cellebrite was looking for a business and technology partner to help it provide insights from a global perspective.

Specifically it wanted to embed machine translation into its solutions to offer secure on-demand translation to investigators coming across foreign-language content in their work.

Solution

- Creation of Cellebrite Smart Translator module, powered by embedded SDL Machine Translation (now Language Weaver) with a large selection of languages to choose from
- Flexibility of a deployment-agnostic solution: on-premises, cloud or hybrid
- Technology and marketing support from SDL to help Cellebrite gain user adoption for its product

Use case




Industry:
Technology



Application:
Digital intelligence solutions
(60,000 licenses deployed to
150 countries)



Size:
400 employees and
30% YoY revenue growth
(2017-2018)

A dark, moody photograph of a person's silhouette wearing a fedora hat, viewed from the side. A bright, out-of-focus light source is visible in the background on the right. Overlaid on the image is a teal arc that starts near the hat and curves around the person's head. A dotted line extends from the top of the hat, following the curve of the arc. A small white circle is positioned near the person's shoulder, connected to the arc by a thin white line.

Use case

**Hundreds of government
organizations worldwide**

Hundreds of government organizations worldwide

Business need

National, regional and local government organizations around the world need to improve their ability to identify suspicious conversations while actively monitoring terrorist activity, domestic and international criminals, or any other threat. To do so they look for:

- The ability to deliver secure, accurate, real-time translation to investigators and analysts working with intelligence solutions
- A trusted technology partner

Solution

- Effective collaboration between RWS and the technology partners of each government organization
- Secure, on-premises deployment of Language Weaver, the RWS neural machine translation platform
- Ability to train AI models behind firewalls for highly adaptable solutions

Use case



Industry:
Government



Application:
Intelligence services
Military organizations
Law enforcement
(investigative departments)



Want to find out more?
<https://www.rws.com/language-weaver/government-solutions/>

About RWS

RWS Holdings plc is the world's leading provider of technology-enabled language, content management and intellectual property services. We help our customers to connect with and bring new ideas to people globally by communicating business critical content at scale and enabling the protection and realization of their innovations.

Our vision is to help organizations interact effectively with people anywhere in the world by solving their language, content and market access challenges through our collective global intelligence, deep expertise and smart technology.

Customers include 90 of the globe's top 100 brands, the top 10 pharmaceutical companies and approximately half of the top 20 patent filers worldwide. Our client base spans Europe, Asia Pacific, and North and South America across the technology, pharmaceutical, medical, legal, chemical, automotive, government and telecommunications sectors, which we serve from offices 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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