

BBN TransTalk™

Two-way speech to speech translation



BBN TransTalk™ is a portable, two-way translation device that facilitates the exchange of information across a language barrier. English speech is automatically translated and spoken in the foreign language. The foreign language speaker's response is then translated automatically into English speech.

Our speech-to-speech translation technology is language independent and can be configured for any language pair.

Applications

- Force-on-force training
- Private peer-to-peer communication between military officers
- Military intelligence gathering
- Medical/refugee scenarios
- Civil and administrative meetings such as SWET surveys
- Session logging and evidence gathering

Capabilities

- Full two-way translation of speech
- Eyes-free mode for more natural conversation
- Searchable audio log for review of conversations

- Integrated USB handset combines microphone, speaker, and controls
- Recognizes and translates free form speech
- Configurable for new languages and specific technical domains

Supported Language Pairs

English	↔	Iraqi Arabic
English	↔	Pashto
English	↔	Dari
English	↔	Farsi
English	↔	Malaysian
English	↔	Indonesian

Superior Performance

In a recent third-party evaluation BBN TransTalk outperformed competitors' devices in both accuracy and usability. As a pioneer in speech and language technologies and a contractor on some of the largest government R&D programs, BBN has a long track record of excellence in many areas of the field. Our core technology is established, robust, and state-of-the-art.



Platforms

BBN's TransTalk speech translation software runs in real time on most standard COTS laptops (tablets or notebook configuration) and desktops, including Panasonic Toughbooks and Panasonic U1 UMPC. We recommend the following laptop configuration:

Operating System	Windows XP
Processor Speed	1.0 GHz
RAM	1.0 GB program memory
Storage	Minimum 3GB, Recommended 20 GB

TransTalk is also available for Android Smartphones in two- and one-phone configurations. The two-phone configuration enables natural, mixed-initiative interaction without tethering between speakers. We recommend the COTS Nexus One Smartphone with 150 MB of RAM and 500 MB of SD card disk space for the two-phone configuration, or 1 GB for the single phone configuration.



Testimonials

"I like the speed of translation."

"Easy to use. Dummy proof."

"Soldiers recommend its use in a variety of tactical situations such as patrols, cordon and search missions, traffic control points, gate guard, or over loudspeakers. Some felt it would be useful in interrogations."

"The [UMPC] system gets high marks for size, ruggedness, power consumption, multiple batteries, and functions like sleep/hibernate, application hot keys, and keyboard lock."

– Comments from members of the U.S. Military

About Raytheon BBN Technologies

Raytheon BBN Technologies solves real problems through the creation and disciplined application of advanced technology. Today, Raytheon BBN is saving lives in Iraq and Afghanistan with its Boomerang Shooter Detection System; is managing the planning and design of GENI, an advanced network facility spanning the United States; operates the first metro quantum cryptography network; has deployed the first real-time foreign broadcast monitoring system; and has proven the benefits of the world's first stereoscopic digital mammography system in clinical trials.

Contact us

For more information about TransTalk and other advanced media exploitation technologies, please call or write:

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