



***StarCaster
Automated Broadcast Systems
for Aviation***



ABOUT THE COMPANY

STR-SpeechTech Ltd. is a world leader in the design and development of superior speech technology programs and systems, focusing on high quality text-to-speech technology for automated broadcast applications used in aviation, public and marine message broadcasting.

For over 20 years STR has built its reputation by designing and delivering practical, professional products for speech technology applications.

STR offers cost-effective automated voice broadcast systems for air traffic control. The systems replace manual voice recordings and live broadcasts, allowing controllers and meteorologists to make efficient use of labour resources and to focus their efforts on more critical tasks.

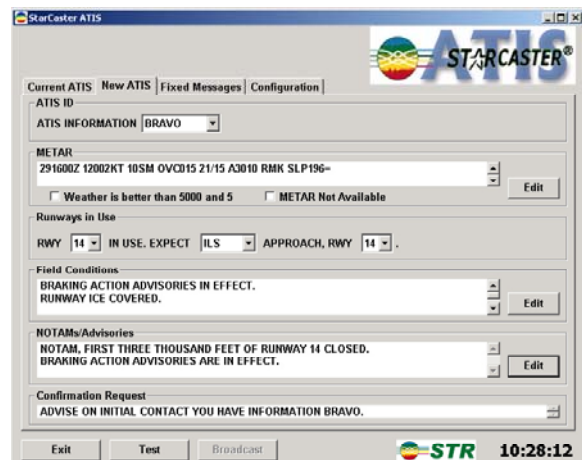
StarCaster® is a highly customizable text-to-speech system with broadcast quality output, and has become the Aviation industry benchmark for quality.

Aviation Systems using StarCaster® TTS Technology:

- ATIS
- VOLMET
- TIBS
- HIWAS
- TWEB
- General Voice Broadcast applications

AUTOMATED BROADCASTS FOR EFFICIENCY & CONSISTENCY

StarCaster® is a PC-based software system that offers a fully automated, superior quality Text-to-Speech (TTS) capability. StarCaster is designed to meet the needs of agencies and corporations that provide timely information to the public via telephone or radio broadcast. The StarCaster system was originally developed for the complex requirements of weather broadcasting, meeting the established requirement for rapid conversion of weather text to a natural, high-quality voice ready for broadcast. StarCaster offers a cost-effective automated solution for information providers, while allowing easy access to essential information to the public.



StarCaster Automated ATIS user interface—easy-to-use lists for selecting weather and airport information to create new ATIS messages.

CRITICAL VOICE CLARITY

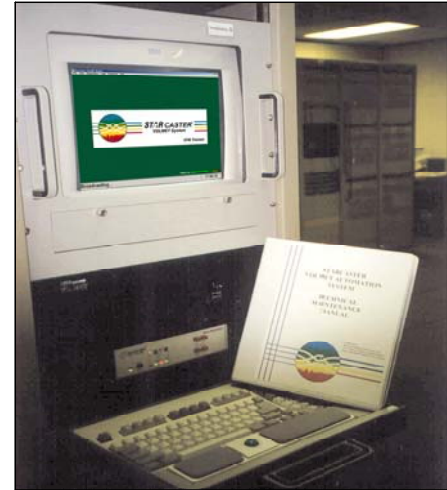
StarCaster uses a "speech concatenation" process to automatically convert text information into a natural voice for audio transmission. The resulting speech is a much higher quality than that of Existing text-to-speech (TTS) synthesis systems, which typically have a "robot-like" sound that is not suitable for high-profile applications.

The TTS component of the system uses a pre-recorded digitized voice database to produce the high-quality voice output. STR's Text-to-Speech (TTS) process has become the benchmark for superior quality voice output. The StarCaster system employs proprietary TTS technology to provide the ultimate clear and natural voice, essential for critical message broadcasting. Software for the StarCaster system has been

designed to allow for optimum flexibility. Optional system features are easily integrated for individual customers.

Although the automated voice quality is what StarCaster is known for, equally important is the system's ability to convert coded weather data into expanded English text. This capability eliminates the risk of human error when manually entering textual weather or airport information.

The StarCaster system uses hardware components that are all commercial off-the-shelf (COTS) items, and works with standard telephony cards and sound cards. The system runs on a basic PC in Windows 2000/XP; other hardware components vary depending upon application requirements.



Rack-mounted StarCaster System

FEATURES OF STARCASTER AUTOMATED SYSTEMS:

- Highest quality Text-to-Speech capability available using natural “speech concatenation” process
- Flexible modular design
- Fully scalable – ACARS data link, future technologies
- Automatic conversion of coded weather data to expanded text to speech
- Automatic checking for weather data errors
- Adjustable speech rate without loss of quality
- Real-time processing of incoming data
- Playback, confirm and edit message prior to broadcasting (via radio or telephone), with vocabulary search of standard information
- Automatic input from AWOS/ASOS appended to Tower Closure messages
- Manual interruption and input at any time
- 24x7 operation
- Dual Hot-Standby operation
- Multiple audio output (for monitoring and routing to more than one transmitter)
- Remote operator positions
- Separate Arrival and Departure ATIS messages
- Web based capabilities
- Fax back
- PTT control
- Uninterrupted Power Supply
- Rack mounted workstation
- Remote alarm
- Printer
- User interface in any language
- Compliance with ICAO and WMO recommendations



STR

Quality that speaks for itself

SUMMARY

- Highest quality Text-to-Speech capability available
- Proven performance from over 20 years of successful operations
- Flexible design in a Windows environment provides immediate configuration to meet specific applications
- Depth of experience in producing voice databases assures high-quality and rapid development of vocabulary for specific requirements

With nearly 100 installations worldwide, STR has accumulated some impressed (and impressive) customers:

- **U.S. FAA**
- **U.S. National Weather Service**
- **U.S. Air Force**
- **U.S. Army**
- **Lockheed Martin**
- **Department of National Defence Canada**
- **Environment Canada**
- **Australian Bureau of Meteorology**
- **B.C. Ministry of Transportation**