TELESTRA™

Custom Solution Comms and Audio

Telestra is a mature, fully featured audio and communications simulation system ideal for the most sophisticated training requirements. Simulate radios, intercom systems, navigation aids, and the entire communication suite of a vehicle, aircraft, or ship. Take advantage of propagation, terrain, satellite communications, and data link modeling for complex training applications. Model and tune engines, rotors, weapons, and other equipment sounds to create an immersive audio environment. Telestra can adapt to any simulator—land, sea, or air.

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APPLICATIONS include aircraft, vehicle, and ship simulators, communications trainers, and Level D or equivalent full-flight simulators. Telestra is also ideal for any application requiring a complex sound and comms solution.

- Responsive, low-latency network distribution
- Web-based remote management and monitoring
- Accredited interoperability across DoD programs
- Comprehensive, high-fidelity sound and comms modeling
- Robust development environment for complex model generation

VOISUS

Ready-to-Deploy Comms and Audio

Voisus is a powerful suite of field-proven, out-of-the box communications and sound products that meet your live, virtual, constructive, and gaming needs. Use our intuitive, web-based tools to set up, monitor, and maintain training scenarios with tens or even hundreds of operators. Customize trainee, instructor, and role-player interfaces to suit your needs. Voisus lets you focus on the training, not the technology.

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APPLICATIONS include warfighter mission, command and control, tactics, war-gaming, comms and coordination, and game-based training. Voisus is also ideal for test, evaluation, and live training ranges, dismounted soldier, desktop, and virtual simulators.

- Ready-to-go live and virtual comms
- Live-to-virtual, Radio over IP (RoIP), Voice over IP (VoIP), and telephone bridging
- Easy training configuration and management
- Gaming comms and sound
- Voice capture, replay, and review
- 3D sound environment automatically driven by DIS entities

SERA ✈

Simulated Environment for Realistic ATC

SERA is ASTi's Simulated ATC Environment (SATCE) solution. It creates a dynamic, fully immersive, artificially intelligent environment filled with additional aircraft and air traffic controllers. SERA generates speech recognition and synthetic responses, training pilots to speak with virtual ATC as they would in the real world. It also populates the air and ground with realistic traffic. Trainees not only hear background radio chatter; they also see visual representations of aircraft out the window, teaching them situational awareness. Thanks to a global airport database and visual and instrument flight rule procedures, this solution applies to any training scenario.

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APPLICATIONS include all levels of flight-training devices, pilot comms and ATC training, and part-task trainers. Extensions for military operations also make SERA ideal for military flight simulators and procedural training.

- Little to no instructor role-playing

- Local and cloud configurations that suit your training architecture

- Easy integration into existing training devices

- Support for both stimulated (i.e., hardware) and simulated (i.e., software) avionics solutions

- Support for Controller Pilot Data-Link Communications (CPDLC)

Pilot PT™

Pilot Phraseology Trainer

ASTi's Pilot Phraseology Trainer (Pilot PT) teaches students to communicate with ATC, decreasing time spent on expensive flight-training devices. This affordable, online platform provides interactive training without instructor role-play, supporting both classroom and distributed training. Students simply connect a USB or bluetooth headset, log into the browser, and start a flight. The trainer provides students and instructors feedback during and after lessons.

ASTi's customized speech recognition intuitively matches students' accents, providing simulated controllers that respond in kind. In fact, it supports over 30 specific English accents, providing accurate transcription worldwide.

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APPLICATIONS include desktop computers, laptops, tablets, and mobile devices. Pilot PT is ideal for remote or classroom learning, students learning English as a second language or practicing domain-specific phraseology, call-for-fire training, general mission rehearsal, and pilot training.

- Speech recognition to detect common communication errors

- Realistic synthetic voices to improve comprehension skills

- Easy-to-develop, highly flexible training scenarios allowing students to practice any phraseology

Unified Comms™

Integrated Voice Comms

Unified Comms integrates separate communication technologies to support your day-to-day training and operational missions. Regardless of the technology, operator, or location, Unified Comms removes boundaries by linking all of your communications. Connect tactical operators, civilian agencies, fleet and field staff, the office, and more. Extend radios, VoIP devices, public telephone, text chat, intercoms, and conferencing to your computer or mobile device. Configurable operator stations can meet any individual operator or application requirements.

APPLICATIONS include test and evaluation ranges, live training and experimentation centers, and RoIP applications. Unified Comms products are also ideal for any program that needs to link radio, phone, intercom, VoIP, and training systems.

- Desktop and mobile clients
- RoIP for any radio type
- Radio control over IP
- Voice logging for debrief, after-action review (AAR), incident archival, and retrieval
- Scalable architecture

redSIM2

Superior DIS Tools for Windows

ASTi's Redsim software suite is a collection of powerful programs focused on the IEEE Standard 1278 Distributed Interactive Simulation (DIS) protocol. These software applications provide comprehensive network diagnostics at the protocol data unit (PDU) level, providing insight into the finest details of your simulation network. Redsim software runs on the latest Windows® versions approved by the DoD and supports DIS versions 4, 5, 6, and 7.

APPLICATIONS include any system running Windows 7 or later (e.g., desktop computers, laptops). Redsim 2 is ideal for coordinating, building, and refining distributed exercises that use DIS.

- A modernized software suite for Windows 7 and 10
- Inclusion on the OTI Evaluated/Approved Products List
- Monitors, analyzes, records, and replays custom and standard PDUs
- Support for Link-16 and DIS Link Monitor Plus view
- Support for Mission Operation Networks such as CAF-DMO, MAF-DMO, DMON, and USAF-AFSOC