CAE**VISTA**™

Virtual Intelligence Surveillance & Reconnaissance Training Application

The first choice in high-fidelity JADC2 training, testing, and operational assessment

The CAE Virtual Intelligence Surveillance & Reconnaissance Training Application (**VISTA**) provides real-time dynamic data feeds from virtual C4ISR assets that can be controlled in real-time and fed directly to intelligence screeners and C2 terminals. C4ISR professionals now have dedicated, highly affordable, stand-alone access to train, conduct mission rehearsal, or assess their operational plans on any mission set from initial preparation of the operational environment (IPOE) to real-time interdiction support of high value individual (HVI) targeting and strike, and all-domain near-peer threat assessment.

Cloud-ready, CAE**VISTA** is compliant with the USAF's Distributed Mission Operations (DMO) standards and can link multiple US and coalition partners for small, or large-scale mission training and exercises. Its containerized architecture allows it to be installed as part of any centralized or local cloud system to scale support across the JADC2 enterprise.

The high-definition virtual C4ISR data streams generated by **VISTA** simulate live mission data and includes full motion video (FMV) of both electro-optical (EO) and physics-based infrared (IR) (near and far spectrum IR), synthetic aperture radar (SAR) with moving target indication, and even Signals Intelligence data collected by platforms such as MQ-9, RQ-4, U-2, and RC-135.

High fidelity C4ISR data streaming

When operating on the cloud, CAE**VISTA** immerses C4ISR students and, seasoned operators alike, in a highly complex and realistic operational data environment. Streamed across a network, fed to operational analyst stations, or connected to a weapons system trainer, CAE**VISTA** gives C4ISR instructors the unprecedented ability to create and control any tactical scenario with the highest fidelity C4ISR data available to meet any training need. CAE**VISTA** vastly improves the efficiency and effectiveness of local training with no need to rely on live missions or outside units.

CAE

Key features

- Ability to create multiple virtual C4ISR platforms with independent targets and unique sensors
- High-definition full motion video, SAR, GMTI, Space ISR, and SIGINT/EW
- Physics-based weather, electronic warfare, space, and cyber effects
- Complex doctrinally-correct, AI-driven entity behavior to create any scenario

- Automated or manual control of C4ISR platforms and sensors
- Virtual Link-16 and other tactical data link pictures
- Ability to both host and join DMO events
- Exportable to NATO and other coalition partners
- Cloud-based, scalable, and frequently upgraded
- Worldwide, high-resolution database
- Highly affordable

Testing and operational assessment

Not only can CAE**VISTA** generate the red/blue forces and C4ISR data to stimulate your operational network, enabling individual training through Large Force Exercises, CAE**VISTA** comes with tools to ingest operational data such as O-Plans, ATOs, and live data streams to visualize live operations. CAE**VISTA** can conduct Big Data Analysis to assist in targeting and collection management and can also project the outcome of your operations at faster-than-real-time speeds to show you the results of your planning decisions.

Multiple simultaneous diverse streams of data

One of the primary benefits of the CAE**VISTA** system is the ability to output to FMV, SAR, GMTI, and other ISR data types--in STANAG-compliant formats, from multiple platforms simultaneously. This helps teach students how to integrate with both the targeting and the collection management processes and hone their ability to provide real-time support to tactical units. Bringing real-world applications to the simulation and training setting gives students the unique ability to apply their knowledge in a closely controlled and tailored environment. Instructors can begin training with a clear mission set in mind and can interact with the **VISTA** operator to change any necessary items and inject assets that are dynamically re-tasked thereby allowing more student utilization of ISR cross-cue techniques. This ability to make changes on-the-fly allows exceptional instructional flexibility.

White cell and C2 support

As a total training solution provider, CAE can also provide white cell and C2 support for your networked exercise or multi-site training event. Our team of C2, intel, and operations experts can provide any level of role-playing support, from a single forward air controller to a full coalition joint task force C2 structure. CAE can also build your scenarios, create the complex mission environment, integrate the training locations, generate the scenario products, and facilitate the entire event. And our red/blue force and product generation automation means while cell efforts are much more efficient and affordable than legacy approaches.

Turnkey training package

CAE offers a unique and unparalleled ability to introduce high-fidelity simulated and customizable training for intelligence professionals and organizations. This solution of a single system outputting multiple data streams operated and maintained by SMEs allows training centers and exercise managers the freedom to focus on operational missions.