

Cyber Simulation

Aircraft Design
Concept

Prototyping &
Modeling

Design
Verification

Pilot Simulation
Testing

Testing
Environment
Configuration

Operational
Requirement

Virtual Network
Simulation
(Testing/Training)

Cyber Operator
Training

Today's state-of-the-art aircraft are designed, built, flown and even repaired in a totally virtual environment. All critical capabilities and scenarios are thoroughly tested with simulations before a single part is manufactured. The result--a safe, airworthy plane.

In a similar way, our robust **Cyber Simulation** suites enable our mission partners to design and test applications, train personnel, conduct exercises and much more--all in a safe, virtual environment.



Cyber Simulation Service

AFNIC's unique **cyber simulation** suites enable our mission partners to perform systems development, testing, validation, integration and training and exercise activities in a safe, controlled environment that realistically represents the "live" Air Force Network (AFNet). From project and program managers to educators, trainers, evaluators, and exercise planners, our cyber simulation suites provide indispensable support for all warfighters operating and defending the network.

Our powerful simulation and network analysis capabilities are housed in our 15,000 square foot state-of-the-art *Technology and Interoperability Facility (TIF)*. Capabilities include:

- **Realistic AFNet Validation Environment (RAVE)** – Provides unmatched replication of the AFNet core services environment for testing purposes.
- **Simulation Training and Exercise (SIMTEX)** – Equips cyber warfighters with simulator-based education, training, crew certification, and exercise capabilities. Network operations, offensive and defensive cyber tactics can be developed and perfected without affecting the live network.
- **Scope ABLE (Airborne Laboratory Environment)** – A highly configurable integration lab built into a C-9-15 fuselage, Scope ABLE emulates the "office in the sky." It enables cost-effective testing and troubleshooting of airborne communications products and technologies in a controlled, "real-world" environment.
- **Executive Airlift Communication Network (EACN)** – An AFNIC System Integration Lab (SIL) configured like the Air-to-Global Information Grid (GIG) gateways (A2G2s) that provide secure and non-secure voice, data, and video services to our nation's senior-most leaders. The EACN SIL enables us to design, test and integrate new requirements before implementation.
- **Airborne Network GIG Interface (ANGI) System Integration Laboratory (SIL)** – Taking its lead from EACN, the ANGI SIL is an Air Force standard satellite communications gateway that offers a range of AFNet core services to airborne and deployed users including email, Internet, chat, voice and video conferencing.

The AFNIC Advantage

By engaging us early, you can be assured that you'll be positioned for successful integration of your mission-critical system, application or product onto the AFNet. Throughout your project, you'll benefit from our:

- ▶ Innovative approach
- ▶ Holistic, enterprise perspective
- ▶ Extensive technical expertise
- ▶ Decades of experience solving the toughest technical challenges
- ▶ Commitment to an outstanding service experience every step of the way



To learn more, call or email us today at: (618) 229-5846 (DSN 779-5846) / afnic.xp.customersupport@us.af.mil