

"Security at AFHCAN is not just a firewall; it is a process from the design stage through the final implementation and management of the AFHCAN solution."

"Security is built into the software and not added as an afterthought."

"AFHCAN takes extraordinary effort to make sure that servers are hardened and firewalls are configured to provide maximum security."

Statements from a final security review of AFHCAN by a Certified Information Security Auditor (NSA).

The AFHCAN Software will be available in multiple languages in late 2006.

**President's Award
American Telemedicine Association (2004)**
Established to recognize a project that has made a substantial contribution toward the advancement of telemedicine.

**Most Innovative New Technology Device
for Diagnostics (2004)**
Presented by The Emerging Technologies and Healthcare Innovations Congress (TETHIC) to a novel diagnostic technology that improves precision, accessibility, turnaround time, or access to diagnosis.



Telehealth Sales & Marketing Director
Phone: 907-729-2260
Toll Free: 877-885-5672
Fax: 907-729-2269
E-mail: afhcansales@afhcan.org

AFHCAN
Alaska Native Tribal Health Consortium
Division of Information Technology
4000 Ambassador Drive
Anchorage, AK 99508

Visit our website at www.afhcan.org for more information



AFHCAN Software
An Enterprise-Wide Telehealth Solution

AFHCAN
Access Without Limits

A Simple Interface With Powerful Capability

The heart of the AFHCAN store-and-forward telehealth system is the AFHCAN Software. Designed by health care professionals, the system has proven effective in many clinical scenarios.

Access to biomedical peripherals is as easy as 1 – 2 – 3. Users may login, then easily use the peripherals for a patient exam.

- Touchscreen Compatible
- Color coded for easy navigation
- Three (3) clicks to access peripherals once logged in
- Minimal user training required

Integrates With Biomedical Peripherals

Biomedical peripherals offered that are integrated into the AFHCAN Software and may be used to develop a complete telehealth case include:

- Audiometer
- Spirometer
- Dental Camera
- Stethoscope*
- Digital Camera
- Tympanometer
- ECG (12-Lead)
- Video Otoscope
- Holter Recorder*
- Vital Signs Monitor
- Scanner
- Other scopes (i.e. video sources)

* Available late 2006

Fits Within Existing Clinical Workflow

The AFHCAN Software supports existing referral patterns and serves as a platform for new clinical relationships. The software enables and facilitates healthcare delivery without generating new business rules. Features accommodate workflow!

- Cases can be sent to an individual or a group (Department)
- Consultants can be advertised locally or shared enterprise-wide
- Cases can be Sent, Archived, Discarded, or placed on Hold
- Trust Relationships can be established between one or many organizations
- Clinicians have options to use drop down menus or free text
- Clinicians have option to receive email notification
- Case Summary, Images and Billing Forms can all be printed

Reliable and Robust for lower Total Cost of Ownership (TCO)

AFHCAN Software supports secure client-to-server and server-to-server connectivity over a wide range of telecommunications infrastructure. This technology typically requires no changes in organizational firewalls, while providing high performance and reliability. AFHCAN has successfully transmitted telehealth data over satellite links on days when storms prevented the transmission of telephony, fax, email, video and browsing.

- Flexible – Self tuning optimizes connectivity over Satellite links, Satellite phones, dedicated lines, POTS or Internet.
- Reliable – Small data packets with retransmission capability to overcome poor connectivity
- Efficient – Users can also create cases when completely disconnected from the server!
- Firewall Friendly and Secure – Appears as browsing (HTTP over port 80) with 3DES encrypted data. Also supports encrypted TCP/IP and SSL options.

Enterprise-Wide Features

The “Enterprise Solution” allows autonomous health care organizations to share multimedia telehealth data in a controlled, secure and robust manner consistent with HIPAA Privacy and Security Requirements. “Server-to-Server” technology allows multiple servers connected to a wide-area network or the Internet to exchange telehealth cases – with Administrative-level security and access controls in place.

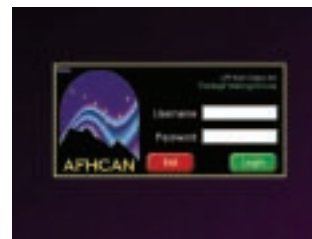
Secure - from Design to Deployment

The AFHCAN Software and all preloaded clients and servers are configured and validated for maximum security and functional capability. Continuous, ongoing testing at AFHCAN is used to validate the software design and deployment configuration, and to determine which future software enhancements are needed to maintain secure system (patches, fixes, Service Packs). AFHCAN relies on industry-standards such as PKI (Public Key Infrastructure) and digital certificates from Verisign to provide secure communication and code security.

- Supports automatic downloads of authenticated code updates to servers and clients
- Data transmission is encrypted for the “end site” (3DES/SHA1)
- Data is signed by the originating site for non-repudiation purposes and data validation
- External “Hardware Security Modules” store and protect digital certificates outside the Operating System
- Customer controls all server-to-server trust relationships between organizations
- Remote monitoring and alarming built in for proactive management
- Servers are “hardened” to ensure secure deployment
- Role-based Security for users and application administrators
- Fully auditable - tracks all user activities.

Evaluation

AFHCAN software supports organizational needs for evaluation and utilization reporting requirements. The software provides the capability to pose evaluation questions to users with each telemedicine case, and servers provide reports on response summaries and utilization information.



1. Begin at the login page to start using the software.



2. The user has four choices. Selecting “Create a New Case” provides access to all the biomedical devices.



3. The user may select any peripheral at this point. For example, selecting Video Otoscope starts the next screen.



4. The live image from the Video Otoscope is large enough to view and share with the patient. Controls are easily identified on the right side of the screen.