



ADmitMac for CAC (AFC) Executive Summary

Thursby Software Systems, Inc.



Why is AFC Needed?

- Public Key Enabled (PKE) Kerberos Single Sign-on with a Common Access Card (CAC).
- Advanced Network File Client with SMB Signing and Distributed File System (Dfs).
- Highly Secure Active Directory Integration using encrypted LDAP connections.
- Entourage 2004 Users Can Access Exchange without passwords.



Status

- AFC version 1.0 released October, 2006
- AFC version 1.1 released June, 2007
- AFC version 1.1 JITC Certified July, 2007
- AFC version 2.0.1 released May, 2008 works with Leopard



Ten Most Valuable Features

*Not included with Mac OS 10

Thursby Software Systems, Inc.

#1



Support

- Customers have direct access to knowledgeable support personnel.
- Thursby provides expert support for Windows and Macintosh integration.
- Can be automatically deployed to large numbers of Macintosh computers using included tools.

#2



Single Sign-On

- Provides cryptographic proof to Active Directory that the user logging in possesses their CAC and PIN using PKINIT.
- AFC maintains Kerberos single sign-on obtained using PKINIT, refreshing them when waking from sleep or screen unlocking.
- Secure screen locking when CAC removed.
- Seamlessly integrated with network file and print sharing, and with intranet web services.

#3



Windows Integration

- AFC signs and encrypts all Active Directory communications. Authentication using SPNEGO, NTLMv1, NTLMv2 and Kerberos.
- Implements SMB signing.
- Provides Distributed File System support.
- Works with Microsoft HISEC templates.
- Single file format. No `._` files.

#4



Exchange Integration

- AFC provides Kerberos credentials needed by Entourage 2008 and Exchange.
- AFC can proxy Entourage 2004 mail connections to Exchange OWA without requiring passwords.
- CAC users can access their Exchange based address book, e-mail and calendar.

#5



OCSP

- AFC can be configured to use the Online Certificate Status Protocol to validate certificates using a designated OCSP responder.
- Reduces network delays and traffic.
- Allows use of Tumbleweed.

#6



Certificate Control

- AFC allows user to control application use of their CAC identity certificate.
- Allows Safari to access some sites that would not work otherwise.
- Allows some third-party applications to function properly.

#7



OS Administration

- AFC adds a command line tool providing 'sudo' functions without using a password.
- An administrator can perform command line administration authorized using their CAC.
- Tool requires user to have their CAC inserted and unlocked.
- ASCL cards also supported.

#8



Publishes Certificates

- AFC publishes CAC certificates to Active Directory when a user logs in.
- Allows all Exchange users to send encrypted e-mail to Macintosh users without obtaining their certificate first.

#9



Trust Management

- AFC provides administrative features to configure certificate authorities trusted *only* for user authentication.
- AFC automatically retrieves Active Directory trust points (NTAuth) when possible.

#10



JITC Tested

- The DISA Joint Interoperability Test Command (JITC) has tested AFC I.1 and shown that it meets applicable DoD requirements for Public Key Enabled (PKE) software.
- JITC certification letter issued July 2007.



Summary

- 1 - Supportable and Deployable
- 2 - True PKE Single Sign-On (Kerberos PKINIT)
- 3 - Full Windows Integration
- 4 - Exchange Integration
- 5 - Online Certificate Status Protocol (OCSP)
- 6 - CAC Certificate Control
- 7 - “sudo” Replacement for Administration
- 8 - Publishes CAC Certificates in Active Directory
- 9 - Comprehensive Trust Management
- 10 - JITC Certified



More Information

- <http://www.thursby.com>
- Full featured, free evaluation kit available on our web site.
- Evaluation kit includes documentation.
- JITC Status:
http://jitc.fhu.disa.mil/pki/vendor/thursby_admitmacforcacversion_1_1.html