TBC Church Administration Conference April 27-28, 2009 Hermitage Hills Baptist

"Personal Security / Database Integrity" Ron M. Chandler

<u>ChurchAdminPro.com</u> Director, Shelby Systems

- I. Introduction
 - a. www.shelbyinc.com
 - b. www.churchadminpro.com
- II. You are not as safe as you think
 - a. Where do you keep information about
 - i. Your church membership
 - ii. Your donors
 - b. Do you?
 - i. Use laptops?
 - 1. With ChMS databases downloaded?
 - 2. Excel files of membership data
 - ii. Do any of your pastors have Cell PDA's
 - iii. Is your desktop vulnerable to hacking
 - 1. Church lists
 - 2. Access to your ChMS
 - iv. Do you use your accounting software:
 - 1. To do ACH transactions?
 - 2. Scan checks for contributions entry?
 - 3. Retain images of scanned documents?
 - v. Do you have a bookstore, café, or do in-house transactions as commerce?
 - 1. Accept credit / debit card transactions onsite?
 - 2. How is credit card information stored in the system?
 - vi. Issue church-owned credit cards to your staff?
 - vii. Conduct online banking transactions for the church in the accounting office?
 - 1. Browser security
 - 2. Password storage
- III. Keeping your church membership donor and personal information secure is
 - a. A matter of integrity
 - b. A legal matter
- IV. Common gateways for hacking personal information
 - a. Email
 - i. HTML formatting issues
 - 1. HTML heavy emails can contain malicious program code that can infect your computer

- 2. Simplest way to eliminate vulnerability is to eliminate HTML by:
 - a. Turning off HTML preview or formatting
 - b. Turn off HTML formatting completely
 - c. Regularly upgrade to your email provider's latest updates
- ii. Email attachments
- iii. Web based email
 - 1. Login pages are sometimes not encrypted
 - 2. Look for the "lock" symbol in your browser
- iv. Spam
- v. Phishing
- b. Other areas of vulnerability
 - i. Web surfing
 - 1. Malicious code web pages
 - ii. Pharming
 - 1. Similar to Phishing...sends the user to a non-legitimate website to collect personal information that looks legit
 - 2. Check the certificates by double clicking on the lock at the bottom of the browser
 - iii. Chat rooms and other "public" areas

V. Lines of defense

- a. Firewalls first line of defense against unwanted attacks on your system
 - i. Software
 - ii. Hardware
 - iii. Legislation
- b. Antivirus Software
- c. Laws and Liability
 - States have laws that allow individuals whose personal data has been compromised to file a civil suit to recover damages resulting from that compromise.
 - ii. Tennessee
 - 1. http://www.creditreport.com/identitytheft/statistics/Tennessee-identity-theft.asp
 - 2. http://www.idtheftcenter.org/map.html

CONSUMER P

Tennessee Identity Theft Deterrence Act of 1999, T.C.A. § 47-18-2101 et seq., while not expressly imposing liability on businesses or banks for solely failing to prevent identity theft, also does not expressly immunize businesses or banks from civil suits under the Tennessee Consumer Protection Act of 1977 (TCPA) for failing to prevent or minimize the harm resulting from identity theft; accordingly,

3.

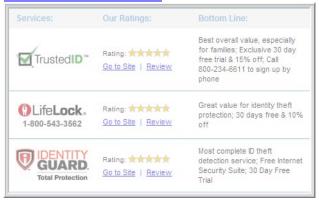
a. Link for above:

http://www.state.tn.us/consumer/documents/CPAandRelatedLaws2007.pdf

iii. Federal

- 1. Gramm-Leach-Bliley Act
 - a. Requires companies to protect against unauthorized access and anticipated threats or hazards to security and integrity of personal records. Requires that organizations implement systems that will detect, prevent, and respond to attacks, intrusions, and system failures.
- iv. Church Membership
 - 1. Violation of these laws can spell financial ruin for a church or ministry trying to defend itself against a civil suit.
 - 2. Loss of loyalty and trust of membership / donors
- VI. Best Practices for security and to avoid liability
 - a. End user security for email
 - i. Delete emails from unknown users
 - ii. Discontinue previewing email messages in HTML format
 - iii. Do not open unknown attachments
 - iv. Do not run unfamiliar macros in documents
 - b. System security
 - i. Prevention
 - 1. Use firewalls
 - a. Software firewalls, especially on laptops
 - b. Hardware firewalls for systems
 - ii. Detection
 - 1. Good Antivirus system to:
 - a. Clean, leave alone, quarantine, delete
 - iii. Eradication
 - 1. The ability to safely delete any virus or worm from an entire system
 - iv. Loss prevention
 - 1. Reinstalling systems if virus / worm cannot be eradicated

- c. "The best approach for companies that are serious about avoiding security breaches is to protect the data itself and to provide protection that stays with the data, wherever it travels. Encryption is the single most effective solution for protecting data and the only security solution that travels with the data on your network, your service provider's network or any other network in the world." Jim Doherty, chief marketing officer, CipherOptics
- d. Personal Identity Theft protection systems
 - i. Free credit reports
 - ii. Online Service enrollment:



- iii.
- iv. Online Backup Service, OBS, Remote Data Backup
 - 1. Examples
 - a. Carbonite, Mozy, Idrive, HP Upline, Norton
 - 2. Pros
 - a. Off-site security for your data, at multiple locations
 - b. May not be as expensive as on-site hardware solutions
 - c. No user intervention
 - d. Secure Sockets Layer (SSL) encryption ensuring off-site security
 - 3. Cons
 - a. Trusting your data to a 3rd party
 - b. On-site hardware solutions are becoming cheaper, easier to operate, and more portable
 - c. Can be very expensive depending on size of data
 - d. Online backups cause a drag on your bandwidth and processor time
 - e. Most providers do not archive data longer than 30 days if you deleted something and don't discover it for 31 days, you are out of luck
 - f. Restoring off-site files can take days
 - g. Many OBS companies do not guarantee their services or your data
 - 4. Creative solutions
 - Use OBS for major databases and local hardware for total backups

- b. Use a simple offsite storage schedule for backup tapes and Ext HDs
- c. Use a service like Amazon S3
- d. With cheaper prices for mega storage, portable backup hardware should continue to be an acceptable off-site solution for most churches for some time to come
- e. Policies and procedures for Information Technology
 - i. Information Security Policies
 - A well written and implemented policy contains sufficient information on what must be done to protect information and people in the organization.
 - 2. They establish computer usage guidelines for staff in the course of their job duties.
 - 3. The objective: improved information availability, integrity and confidentiality, from both inside and outside the organization.
 - 4. One approach:
 - a. Identify all the assets to protect
 - b. Identify all the vulnerabilities and threats, likeliness of the threats happening
 - c. Decide how to protect the assets in a cost effective manner
 - d. Communicate finds and results to the appropriate parties
 - e. Monitor and review the process continuously for improvement
 - ii. (Kee 2009)SANS SysAdmin, Audit, Network, Security (<u>www.SANS.org</u>) examples
 - 1. Top 25 papers on Information Security
 - 2. Top 20 Systems Security List
 - 3. Best Practices for Preventing Top 20 List
 - iii. Professional Practices in Church Administration, NACBApress, July 2009
 - 1. Rules for using the internet responsibly.
 - 2. Rules for the proper use and etiquette for email.
 - 3. Rules for personal use and personal data stored on church-owned systems, including email ownership.
 - 4. Software licensing, installation, and support.
 - 5. Hardware standardization, configurations, and support.
 - 6. Prohibitions for downloading and installing software.
 - 7. Prohibitions for personal software on church systems.
 - 8. Statement of church ownership of all system components including software.
 - 9. Rules for use of security passwords and logins.
 - 10. Privacy of information.
 - 11. Rules for file management and file sharing.
 - 12. Rules for purchasing hardware and software.
 - 13. Rules for system use by volunteers and temporary users.
 - 14. Rules for use of copyrighted material, including digital music.
 - 15. Repairs and maintenance.
 - 16. Updates.

- 17. Rules for power conservation.
- 18. Rules for personal websites and blogs, including disclaimers that the views you express are yours alone and do not necessarily reflect the views of your church. It is suggested that these rules be provided and reviewed by legal advisors.
- 19. Rules for private and public wireless access.
- 20. Structure, procedures, and workflows for the information management system data entry and data management.
- 21. Using common sense.

VII. Backup and Disaster Recovery

- a. Causes
 - i. System failure
 - ii. Hacking
 - iii. Natural disaster
- b. Options
 - i. Built-in backup and recovery tools in the operating systems
 - ii. Dedicated software from a different vendor
 - iii. Backup service, usually 3rd party and offsite
- c. Facts to consider
 - i. How frequently you have to backup data
 - ii. Best time to backup
 - iii. How much data to backup
 - iv. Off-site storage in event of catastrophe
 - v. How long the backup data to be stored
 - vi. Security of the backup data
 - vii. Good documentation for backup and recovery procedure
 - viii. Test it!

VIII. PCI Compliance – avoiding fraud when accepting online payments

- a. What is "PCI"
 - i. Payment Card Industry Security Standard
 - ii. A set of rigid guidelines meant to protect from security breaches where cardholders would be open to identity theft or payment fraud via stolen credit card and personal data.
 - iii. Result of the collaboration between Visa USA, MasterCard, and other companies to establish universal security requirements within the industry to ensure that service providers and merchants employ the highest standard of information security to protect cardholder data.
 - iv. Regulates the security and business processes of service providers and merchants that store, process, or transmit consumer credit card data, customers making payments through a PCI-compliant establishment can feel safe that their bank card account information will be secure under all circumstances.
- b. Why is PCI compliance important to you and your church?
 - i. Many churches are not conducting transactions for

- 1. Online donations
- 2. Live and online credit / debit registrations for
 - a. Events / ticketing
 - b. Classes
 - c. Conferences
 - d. Retreats
 - e. Camps
 - f. Sports teams and classes
- 3. Conducting a business or trade through
 - a. Bookstores
 - b. Café / coffee shops
 - c. Media (CD, cassette, DVD, etc) sales
- ii. Church is responsible
 - 1. To insure that cardholder info is protected according to industry guidelines
 - 2. This includes this list of criteria (Link)

PCI Data Security Standard		
Build and Maintain a Secure Network	1. 2.	Install and maintain a firewall configuration to protect data Do not use vendor-supplied defaults for system passwords and other security parameters
Protect Cardholder Data	3. 4.	Protect stored data Encrypt transmission of cardholder data and sensitive information across public networks
Maintain a Vulnerability Management Program	5. 6.	Use and regularly update anti-virus software Develop and maintain secure systems and applications
Implement Strong Access Control Measures	7. 8. 9.	· · · · · · · · · · · · · · · · · · ·
Regularly Monitor and Test Networks	10. 11.	and cardholder data
Maintain an Information Security Policy	12.	Maintain a policy that addresses information securit

c. New Standards

- i. Under the new PCI regulations, all merchants that accept credit cards are required to comply with requirements that call for the following security measures to be in place:
 - 1. Encrypted transmission of cardholder data
 - 2. Periodic network scans
 - 3. Logical and physical access controls activity monitoring and logging
- ii. Very difficult, if not impossible for a church to meet these standards
 - 1. Takes 2-3 years to implement compliance
 - 2. Costs thousands of dollars
- d. Options for churches and non-profits
 - i. Choose to use a vendor that offers a PCI-compliant solution online payment service providers are becoming compliant so that their customers don't have to
 - ii. List of PCI-compliant service providers is published by VISA USA (pdf)
 - iii. Cardholder Information Security Program Link (go to)
- e. When selecting a service provider
 - i. Make sure that you can seamlessly integrate them with your existing Web site
 - Ability to customize payment processing pages to look and feel like your Web site
 - ii. Look for a provider that accepts a variety of payment methods
 - 1. Credit cards
 - 2. Checks / ACH
 - 3. Debit cards
 - 4. Paypal
 - iii. Robust Reporting abilities: verify the reports available to aid in reconciling your payments and bank statements
- f. Benefits of using a service provider
 - i. Industry compliant security verify before signing up
 - ii. Merchant account setup
 - iii. Comprehensive and customizable reporting functionality
 - iv. Targeted support for churches and non-profits
 - v. Transfer of identity theft liability to the service provider

IX. Auditing Standards

- a. Statements on Auditing Standards (SASs) 104-108
 - i. Effective for audits of fiscal years ending 12/15/2007 or later
 - ii. Changes the focus of audit somewhat from financial statement balances to an assessment of risk in key business processes and the environment in which we operate.
 - iii. Appropriately named "Risk Assessment Standards", although really not a new emphasis, but a return to an audit basis of determining the areas of greatest risk, whether caused by error or fraud.
 - iv. Specifically relates to the information technology (IT) used in financial accounting and reporting
 - v. Audits must ensure that IT-related risks are appropriately evaluated and considered in the audit
- b. Specifically, SASs 105 & 109

- Require your auditor to gain an understanding of your key risks and evaluate your internal controls, including those in IT
- ii. Audits will require the input of your IT staff or out-sourced IT contractor
- iii. Will evaluate the effectiveness of your internal controls within your IT and Financial policies and procedures
- c. Auditing standards established by the Committee of Sponsoring Organizations (COSO)
 - i. Standards are categorized for IT as follows
 - 1. "less complex"
 - 2. "more complex"
 - a. Have custom developed software
 - b. Have packaged software that's been modified or supplemented
 - c. Rely on the internet to transmit transactional data (more than just email and browsing)
 - d. Heavily rely on spreadsheets with complex calculations and macros
- d. Questions auditors will be asking to CBAs, IT Directors, and independent IT contractors:
 - Are there controls over system design and implementation? The focus will be on the role senior management plays in the process of setting and approving of IT strategies and changes
 - ii. Are updates tested before installation? Not many churches have the ability to test updates.
 - iii. Is system security adequate?
 - 1. Standards will call for a minimum 8-digit alphanumeric password that is un-guessable.
 - 2. Multiple failed login attempts should automatically lock a user's account for a period of time.
 - 3. Anti-malware should be in place and current
 - 4. Servers and wiring closets should be locked with a limited number of keys
 - 5. Data should be backed up, regularly, stored off-site, and regularly tested
 - 6. Firewalls should be in place and current and vulnerability assessments should be regularly performed
 - iv. Are operational errors identified and corrected in a timely manner? A reference to user help desk activity.
 - v. *Do applications ensure complete transactions?* This includes folder and file naming conventions to ensure that only the latest files are being used.
 - vi. Additional IT risk management steps
 - 1. Identify / inventory your hardware
 - a. List of your IT infrastructure including
 - b. Switches
 - c. Routers
 - d. WiFi router security settings
 - e. internet connection providers / IP addresses
 - f. Servers
 - g. Desktop computers
 - h. Notebook computers
 - i. Printers

- j. Warranties / service contracts
- 2. Identify / inventory your software
 - a. Each application used
 - b. What computer / PC it resides on
 - c. Binder containing all licenses
- 3. Test your vulnerabilities
 - a. Documentation of your disaster recovery plan including business continuity (emergency access to your DB)
 - b. Regular and thoroughly tested backup strategy
- e. May result in higher audit fees, but preparation will force you to be prepared for a disaster!
- X. SANS Top-20 Security Risks for 2007
 - a. Client-side
 - i. Web Browsers
 - ii. Office Software
 - iii. Email Clients
 - iv. Media players
 - b. Server-side
 - i. Web applications
 - ii. Windows services
 - iii. Unix and mac OS services
 - iv. Backup software
 - v. Anti-virus software
 - vi. Management servers
 - vii. Database software
 - c. Security Policy and Personnel
 - i. Excessive user rights and unauthorized devices
 - ii. Phishing / Spear Phishing
 - iii. Unencrypted Laptops and Removable Media
 - d. Application Abuse
 - i. Instant Messaging
 - ii. Peer-to-peer programs
 - e. Network Devices
 - i. VoIP Servers and Phones
 - f. Zero Day Attacks
- XI. Security Trends for 2009 highly technical
 - a. Endpoint security look for traditional antivirus, anti-spyware, and firewall software to merge with endpoint operations (securing the end product at point of origin), data loss prevention, and full-disk encryption
 - b. More emphasis on cyber-security making the internet safer
 - c. Increasingly stringent privacy legislation Personal and Data Privacy Act of 2007 to be pushed into law.
 - i. States mandating data encryption Michigan and Washington already do
 - d. Security in the cloud companies like Cisco, Trend Micro to provide "cloud" computing security applications

- e. Virtualization security role-based access control, virtual server ID management, virtual network security
- f. Secure software development software companies will be forced to embrace secure software development efforts
- g. Information-centric security new ways to classify sensitive information, apply security policies, and enforce policies throughout the network
- h. Ubiquitous encryption cryptographic processors on hard drives will become common
- i. Entitlement management XACML language (XML Access Control Markup Language)
- j. Business Process Security basically building and securing private portals for company execs

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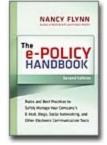
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NACBA Resources

The ePolicy Handbook



Second Edition

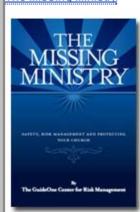
by Nancy Flynn

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Biographical

Workshop Leader: Ron Chandler, FCBA

Division Director, Customer Development

Shelby Systems, Inc.



Before joining Shelby Systems in 2007, Ron Chandler served as a church administrator for 30 years. He was the Pastor for Administration at the Germantown Baptist Church in the Memphis, Tennessee metro area, where he served for the last 24 years of his church ministry. He continues to serve as a church administration consultant, conference speaker, and writer. His pre-ministry business background includes accounting and auditing for various companies. Ron is the author of **Thy Kingdom Clean**, a popular NACBA Press resource for over 15 years. In 2002 he founded the popular website, www.churchadminpro.com, a website for church administration resources, used widely by volunteers and professionals. Ron was the 2002 recipient of the NACBA Maurice Saucedo Award, the 2006 recipient of the Southern Baptist Taylor Daniel Award, and a 2008 inductee into the SBCBAA Hall of Honor. He has been a member of the NACBA since 1986, FCBA certified in 1990, has served as the president of the Southern Baptist Church Business Administration Association. Ron is married to Renee and they reside in Germantown, TN. They have two grown daughters and one granddaughter.

Contact:

ron@churchadminpro.com Ron.Chandler@shelbyinc.com 800.654.1605 x1300

www.churchadminpro.com

