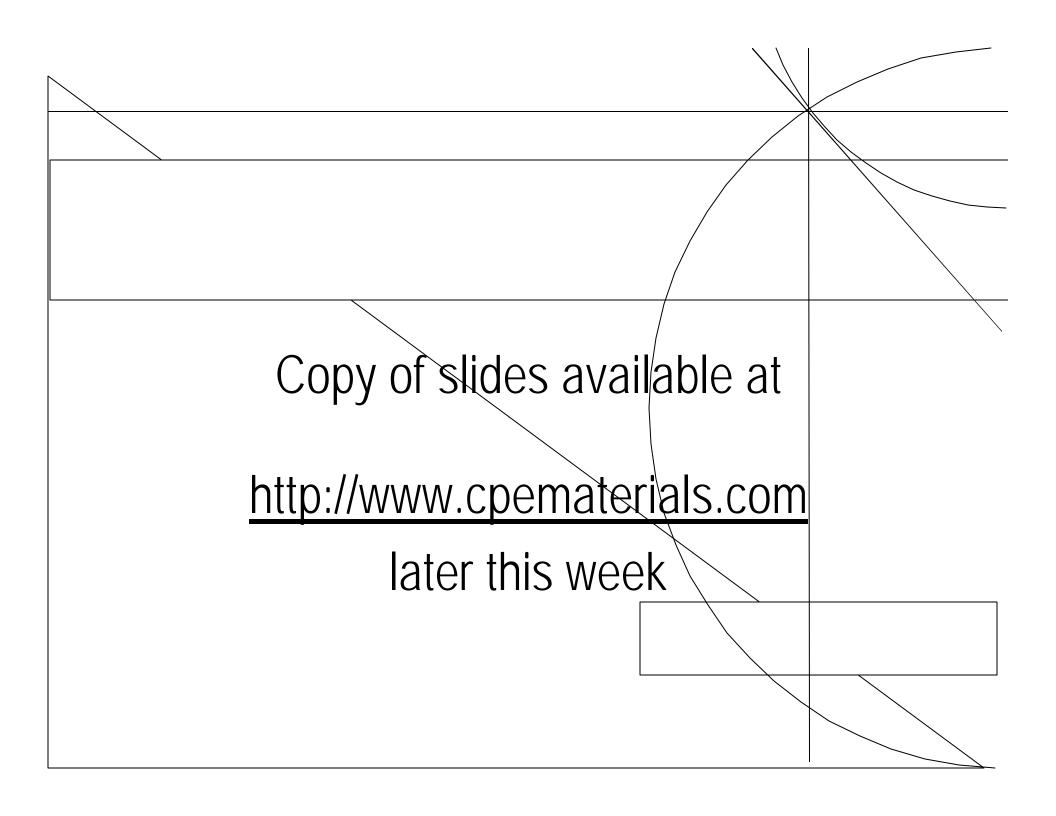


November 21, 2002

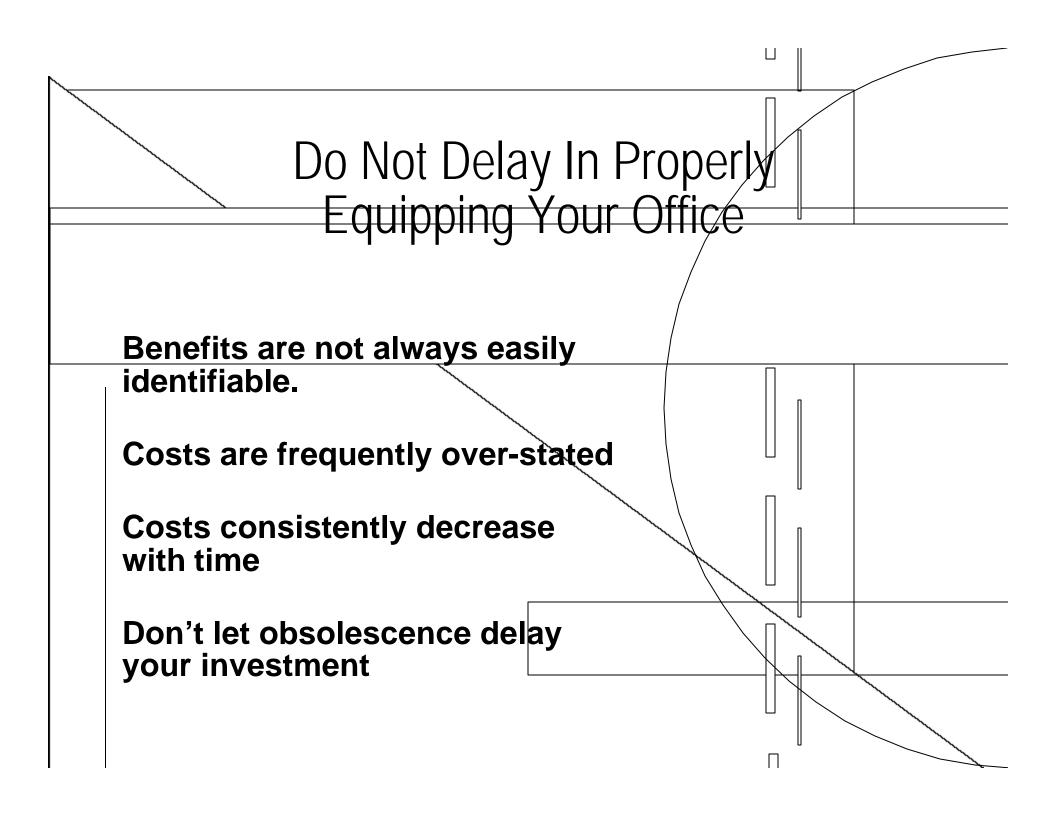


#### Today's Topics

- ◆ Equipment for the Office
- ◆ Methods of Connecting Your Office
- ◆ Electronic Filing—4/30 Filing Date
- ◆ Technology and Professional Standards Update
  - ◆ SSARS 8
  - ◆ Independence
  - ◆ SAS 94
- ◆ Internet Research and the Small Firm
- ◆ The Paperless Office



- ◆ Out of pocket costs decrease over time, so early adopters pay more
- Lost benefits of technology are never recovered if you adopt late
- ◆ Some technologies work great on paper, but not so well (or as expected in practice)
- ◆ Being the last one to adopt a technology puts you at a competitive disadvantage



# Don't be the first firm to adopt but...

## ... be sure not to be the last firm to adopt!

### What Are The Office Basics Too Many Offices Ignøre?

- ◆ Using peer-to-peer networking when a centralized system is better
- Making employees run to the printer for exercise
- Stretching the use of equipment well past its prime
- Having outdated operating systems
  - ◆ CCH ProSystemFX dropping support for Windows 95 beginning next year
  - ◆ Microsoft Office

#### To Network Or Not To Network

- ◆ If there is more than one computer in your office, hook 'em up!!
- ◆ If there are more than two computers in your office, you probably should use a dedicated server!!
- ◆ Share hard drives, share printers, share CD-ROM drives Remember, everything you need to know about networking you learned in kindergarten.

### How Can You Internet If You Don't Network?

- Networking can let you share Internet hookups
- ◆ Don't forget security when you get on the Internet - Networking can help, and hinder.
  - ◆ Special problems of high speed persistent connections
  - ◆ Issues of using "standard" software—will be exposed to the "standard" viruses
  - ◆ Keep products updated—most recent viruses and worms attacked security flaws that had already been patched

#### High Speed Persistent Connections

- ◆ DSL
- ◆ Cable Modem
- ◆ "Traditional" phone lines
  - ◆ Frame relay
  - ◆ T-1/Fractional T-1
  - ◆ ISDN (perhaps a technology whose time never came)
- ◆ Satellite

#### Security and the Persistent Connection

- ◆ You will be scanned and tested
- Consider need for firewall both for office and for any machines used at home
  - ◆ Home firewalls include Zone Alarm and Black Ice Defender
  - ◆ Test site: Gibson Research Shields Up found at <a href="http://www.grc.com">http://www.grc.com</a>
- Virus & Worm Protection
  - ♦ Keep virus software updated but
  - Realize that most outbreaks occur before software is updated

#### What Kind Of Equipment For A Server

- ◆ Plenty of ram(512 meg or better) and disk space (20 gigs or better)
- ◆ Tape backup as large as your hard disk
- ◆ Expandable dual processor motherboard
- As much redundancy as you can afford
  - ◆ RAID
  - ◆ Power supplies
  - ◆ CPU's
- ◆ Remember—a centralized server gives you a centralized point of failure



- Growth of 802.11b Equipment (Wi-Fi)
- Advantages
  - ◆ Free users from wixes
  - Simplifies the use of laptops
  - Cost has dropped significantly
- Disadvantages
  - ♦ Security (especially defaults for equipment)
  - Interference with other signals (cordless phones) and limits on signal
  - ◆ Top speed 11 Mbps unless use more expensive 802.11a equipment—and actual throughput much less than that

#### Wireless Networking

- Equipment
  - ♦ Wireless access point for wired network (about \$110)
  - ♦ Wireless cards for machines
    - ◆ PC Card for laptops
    - ◆ USB based options for other machines
  - ◆ Combination routers/access points being marketed for home market
  - ◆ Note that these home networks may have security impact on your corporate network if employee has remote access

#### Wireless Networking

- Security issues
  - Watch out for defaults that give away your equipment and likely methods to access
  - ◆ Encryption on transmission
  - Limit MAC addresses that can access network
  - ◆ Consider not having SSID broadcast
  - ◆ Some equipment defaults to zero security
    - ◆ Broadcasts manufacturer name as default SSID
    - ◆ Sets up for no encryption
    - Allows any MAC address to enter the network



- ◆ Future Developments and Other Options
  - ♦ 802.11a
    - ♦ Higher speed throughput
    - ◆ Uses different radio frequency
    - ◆ Less range than 802.11b
    - ♦ More expensive than 802.11b
  - ♦ 802.1x security
    - ◆ Standard has been issued
    - ♦ However, much equipment does not support

#### End User Equipment

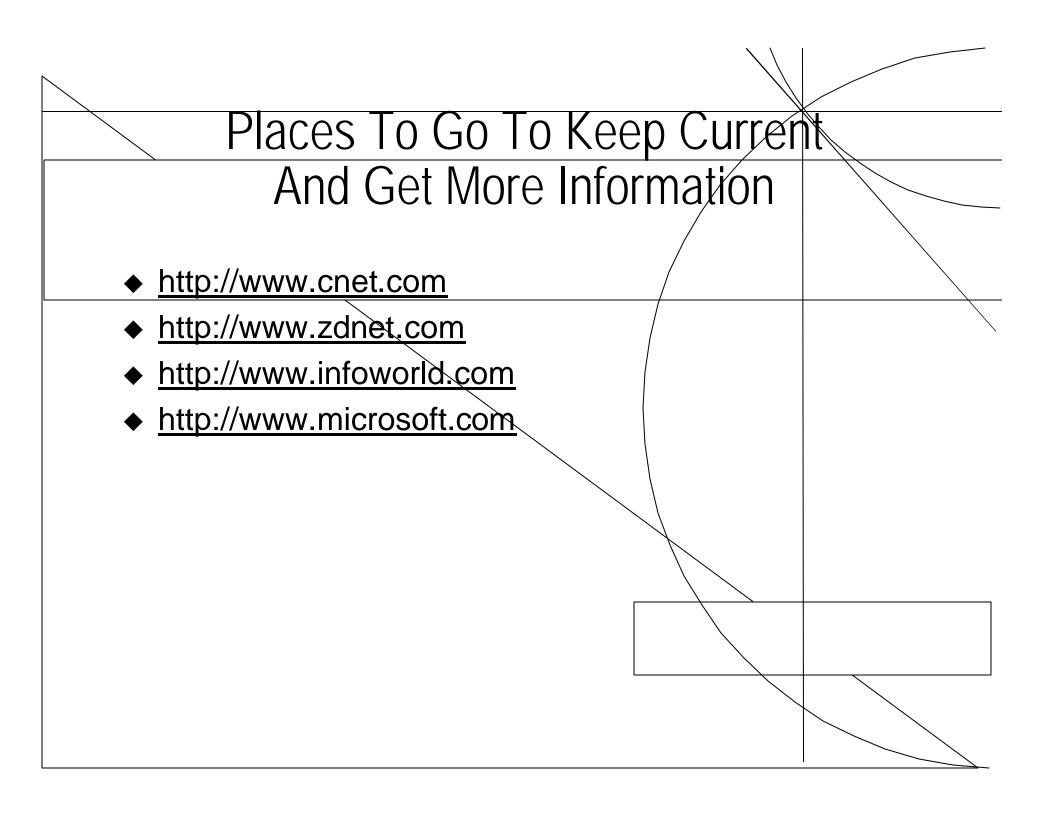
- ◆ If the user travels, consider laptop as a desktop replacement
  - ♦ No transfers between machines
  - ♦ However, be sure to buy the power you need as laptops are generally expensive to upgrade
- Always buy as much power as you can get (except for the first 4-5 months after Intel releases a new chip)
- ◆ High power workstations with monitors now available for under \$1,500



- ◆ What does Microsoft (and other vendors) know about you?
- Increasing online registrations and upgrades will become increasingly difficult to be out of compliance with licenses
- ◆ Be aware of "spyware" in general—does your firewall hardware/software limit access of programs to net without your consent?

#### Remote Access - Do You Need/It?

- ◆ If you have traveling staff
- If you want to work from home (and who doesn't!!)
- ◆ If you want to simplify software management
- If you want to stop upgrading desktop equipment!!
- ♦ Watch for potential impact of ASP
  - ◆ Still has not had predicted impact but tax vendors continue to work on it \_\_\_\_\_\_
  - ◆ Rent rather than buy applications
  - Back to the future—return of the timesharing operation





- Still not quite there for most CPAs
  - ◆ All forms/all schedules
  - ◆ Plain paper attachments
  - ◆ Real electronic filing (no paper/signature)
- ♦ Need to prepare for it in any event
  - ◆ IRS is moving on the issues above
  - ◆ By the time your clients ask for it, it may be too late to learn
  - ◆ Suggest you ready yourself today

#### Electronic Filing

- Proposed filing deadline extension
  - ◆ Bush administration has proposed granting e-filed returns a due date of April 30 and appears likely to attach to a bill next year
  - ◆ Lots of unresolved problems
  - ◆ IRS is planning for this eventuality
- Need to get ready
  - ◆ Information for IRS & Virginia is in your materials
  - Apply now—IRS suggests applying before December 1

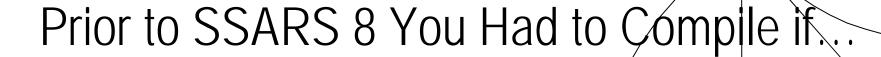
## Professional Standards and Technology Recent changes to professional accounting standards that are impacted by technology



- ◆ Compilations are not driven by being engaged
- Have to perform a compilation if you submit a financial statement
- Definition of what constitutes a submission has changed

#### The Old Rule (Prior to SSARS 8)

- ◆ Submission occurred if you
  - ◆ Generated a financial statement or
  - Made material modifications to a financial statement
- ◆ Compilation and Review Risk Alert 1997/1998
  - ◆ Followed failed exposure draft on assembly of a financial statement
  - Had a list of potential submissions
  - ◆ Defined submission broadly



- ◆ You made entries on a client's Quickbooks database
- ◆ You made entries on an accountant's copy of the QuickBooks database
- ◆ The issue revolved around the fact that the client could issue a command and print a financial statement



- ◆ Removed material modification requirement
- ◆ Rule now is you have to
  - ◆ Present to the client or third parties
  - ◆ Financial statements the CPA has prepared
- Most commentators believe that eliminates the issue of making modifications to the client's database
- However note the asterisk in Compilation/Review Alert



- ◆ Published on August 1, 2002
- ◆ Covers a number of topics
- Association with statement when not compiling may be of interest from a technology and the standards standpoint
- ◆ Artifact of SSARS 8 and the new definition of submission?

#### Independence and Technology,

- ♦ Ethics Interpretation 101-3
- ◆ GAO New Independence Standards
- ◆ Sarbanes-Oxley changes
- ◆ Technology gets involved because CPAs assisting their clients with technology problems involving their accounting systems may lose their independence if not careful
- ◆ The above changes all follow a similar model of seeing the CPA as losing his/her independence



- ◆ Updated Ethics Interpretation 101-3/
- ◆ Officially—told not a change
- ◆ Practically—most practitioners feel this is a major change to how small firms practice
- ◆ Technology gets involved because CPAs assisting their clients with technology problems involving their accounting systems may lose their independence if not careful

#### Ethics Interpretation 101-3

- Generally expouses a "consulting" theory of independence (note that GAO and Sarbanes-Oxley go beyond this model)
- You are independent if and only if you merely advise the client to do something
- ◆ You are not independent if you actually execute an action
  - ◆ See list on page III-8
  - ◆ Note more detailed list in full interpetation
  - ♦ Need specific client consent for changes made to their accounting database

#### So what if I'm not independent?

- Have to disclose in a compilation
- ◆ More troublesome—cannot perform a review
  - ◆ A CPA that is not independent is prohibited from conducting a review
  - ◆ Is a problem in the peer review arena
  - ◆ Also could be a real problem in litigation
- Future techologies add problems
  - ◆ Intuit offering direct access from CRAs to client data in Quickbooks
  - ◆ ASP models also tout this feature

#### GAO Yellow Book Standards

- ♦ New Interpretation of Standards Amendment No. 3, Released January 25, 2002
- ◆ Additional guidance issued in July—technology related portions in the appendix of materials
- ◆ Generally prohibits a CPA from performing certain services and remaining independent
- Remember these standards are in addition to the standards generally applicable under Virginia law (generally the AICPA Code of Ethics)
- New effective date—periods beginning after January 1, 2003

#### **GAO Standards**

- ◆ Specific Issues in Non-Technology Sections
  - Management must take responsibility for work that is allowed (see questions 46 and following)
  - ◆ Posting to the records is absolutely off limits, no matter if it is merely clerical (see question 50)
  - ◆ Issues with assistance to clients and technology changes to address new accounting principles (Question 62)

#### **GAO Standards**

- ◆ Technology Section
  - ◆ OK to set up chart of accounts and statement format for purchased commercial software (Question 68)
  - ◆ Can do assistance and training on software that is wholly non-accounting related, though watch for indirect ties (Question 69)
  - ◆ Can't install off the shelf software (Question 70)
  - ◆ Auditing effectiveness of program is a potential problem (Question 71)

### **GAO** Standards

- Technology Standards (Continued)
  - ◆ Training for off the shelf package, independent of installation, doesn't impair independence (Question 72)
  - ◆ Cannot sell firm developed software to organization and maintain independence (Question 73)
  - ◆ Can provide advice about a particular software package (Question 74)
  - ◆ Be careful of non-CPA specialists (Question 77)

# Sarbanes-Oxley Act

- ◆ Similar to GAO, has a prohibition on provision of certain technology services to maintain independence
- ◆ Act indicates not meant to be used as a blueprint for nonpublic companies (See Act Section 209)
- ♦ However, other forces also seem to be moving towards this type of interpretation
- ♦ So get ready to conform to Sarbanes-Oxley

# Sarbanes-Oxley Act Prohibited Services

- ◆ Bookkeeping or other services related to accounting records
- ◆ IS system design and implementation
- ◆ Appraisal or valuation services, fairness opinions or contribution-in-kind reports
- Actuarial services
- Internal audit outsourcing services.
- Management functions or human resources
- Broker or deal, investment adviser or investment banking services
- Legal services and expert services unrelated to the audit

- ◆ Modified auditor's required understanding of internal control (AU ¶319)
- ◆ Officially, does not eliminate the possibility for auditor to determine internal controls should not be tested and full reliance will be placed on substantive tests
- ◆ However, auditor must determine if substantive tests can accomplish their objective due to lack of controls in the IT system (AU ¶319.04)
- ◆ Is aimed at requiring auditor to consider if there is implicit reliance on IT control systems

- Must obtain understanding of internal control in all audits (nothing new)
- ◆ Must specifically understand how I/T affects controls relevant to audit (¶319.02)
- ◆ Definition of IT (footnote to ¶319.02)
  - Automated means of originating, processing, storing and communicating information
  - ◆ Includes recording devices, communication systems, computer systems (hardware, software & data) and other electronic devices



- ◆ Internal Control Benefits of IT Systems (AU ¶319.18)
  - ◆ Consistently apply rules and perform complex calculations
  - ◆ Timeliness, availability and accuracy
  - ◆ Facilitate additional analysis of information
  - ◆ Enhance ability to monitor activities
  - ◆ Reduce risk controls will be circumvented
  - ◆ Enhance segregation of duties

- ◆ Internal Control Risks of IT Systems (AU ¶319.19)
  - ◆ Computer is always right mentality—relying on programs that are not working properly
  - Unauthorized access to data poses risk to data
  - ◆ Unauthorized changes in master files
  - Unauthorized changes to software
  - Failure to make necessary program changes
  - ◆ Inappropriate manual overrides
  - ◆ Potential loss of data

- ◆ Notes that a single flaw can compromise the entire system (AU ¶319.20)
- ◆ Consider the need for bringing in specialists to handle the IT control issues (AU ¶319.34)
  - ◆ Remember the overall requirement of adequate technical competence
  - ◆ Clear now must have adequate technical skills to understand the IT control systems
- ♦ Not allowed to assume because entity is small, IT can be ignored (AU ¶319.57)

# **SAS 94** ◆ Effective date—periods beginning on or after June 1, 2001 ◆ Practical standpoint, for for May 31, 2002 fiscal years and later ◆ Earlier application is permissable

# Tax Research and the Internet Finding information via the net...

"In many of the more relaxed civilizations on the Outer Eastern Rim of the Galaxy, the Hitchiker's Guide has already supplanted the great Enclopedia Galactica as the standard repository of knowledge and wisdom,...

...for though it has many omissions and contains much that is apocryphal, or at least wildly inaccurate, it scores over the older more pedestrian work in two important respects.

First, it is slightly cheaper;

and second, it has the words DON'T PANIC inscribed in large friendly letters on its cover."

Douglas Adams
The Hitchhiker's Guide to the
Galaxy

## Internet vs. CDs and Paper

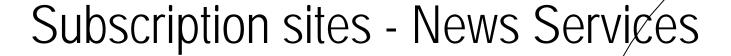
- Advantages
  - ♦ Free Resources
  - ◆ Accessible from anywhere with connection
  - ◆ Current information available as soon as it happens
- Disadvantages
  - ◆ Speed of access
  - ♦ Free resources don't fill all needs.
  - ◆ Outdated and unreliable information
  - Free sites disappear without warning

#### Free Sites

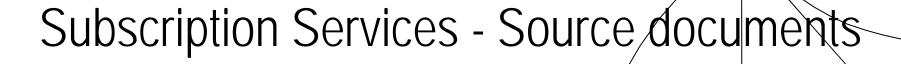
- ◆ Taxsites http://www.taxsites.com
- ◆ BenefitsLink http://www.benefitslink.com
- ◆ SmartPros http://accounting.smartpros.com
- ◆ Tax Court http://www.taxcourt.gov
- ◆ IRS http://www.irs.gov
- ◆ FindLaw http://www.findlaw.com
- Barry Rubin's State Links
   http://www.rubincpa.com/tax/statelink.html
- Alt.accounting & Misc.taxes.moderated (newsgroups)
  - http://groups.google.com

# Subscription sites - Editorial Services

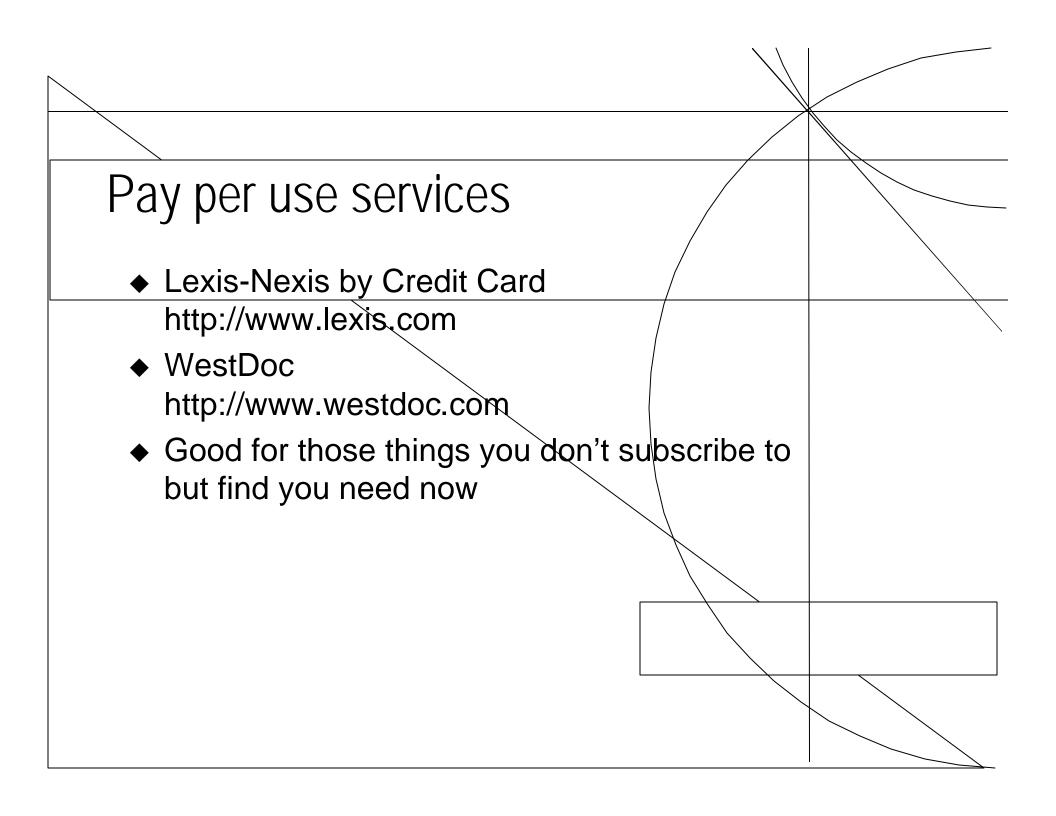
- ◆ BNA Portfolios http://www.bna.com
- ◆ CCH Standard Federal Tax Reporter http://tax.cchgroup.com
- RIA Federal Tax Coordinator http://checkpoint.riag.com
- Using the Services
  - ◆ Learn how to use complex searches
  - ◆ Make use of old techniques
    - ◆ Flipping pages
    - ◆ Using the index



- ◆ BNA Daily Tax Report and TaxCore/ http://www.bna.com
- CCH Tax News Direct http://tax.cchgroup.com
- ◆ Tax Analysts TaxBase http://taxbase.tax.org
- Gives daily update of developments in tax law, giving you an advantage of appearing up to date on changes

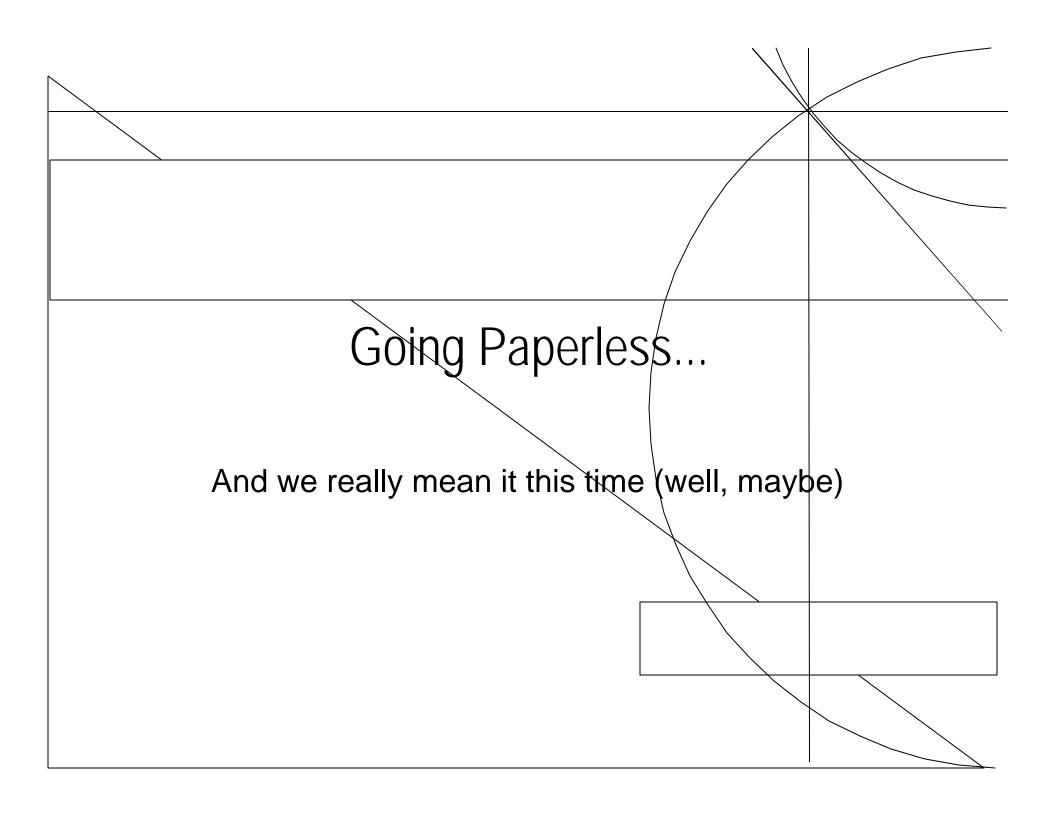


- ◆ CCH US Master Tax Guide Plus http://tax.cchgroup.com
- ◆ Tax Analysts Awareness Libraries http://taxbase.tax.org
- ♦ Competes with source document CDs from Kleinrock and Tax Analysts.





- ◆ Rate your sources, just like in print
- ◆ Learn to use your tools
  - ◆ Bookmarks/Favorite Places
  - ◆ Electronic mail
  - ◆ Usenet news program
- Arizona Society of CPAs Presentation
  - ◆ Manual
  - ♦ Website links
  - ♦ <a href="http://www.cpematerials.com">http://www.cpematerials.com</a>





- ◆ No professional would ever need to/leave his desk to find a document
  - ◆ All documents online (no offline archive)
  - All documents indexed
- ◆ Accessible from anywhere
- ◆ Accessible (with appropriate limits) by client without CPA involvement



- Equipment you will need to purchase,
  - ◆ Scanners production, desktop and portable
  - ◆ Storage online vs. archive
- ♦ Software needed to go paperless
- What to do with old records?
  - ◆ Scan everything in (labor intensive)
  - ◆ Start now and ignore the rest
  - ◆ Set date in the past
- See discussion in Appendix B



- ◆ IRS Imposed Requirements
  - ♦ Revenue Procedure 97-22
  - ♦ Revenue Procedure 98-25
- ◆ State law issues (including all agencies)
- Will electronic evidence be held to a higher standard?

# IRS Requirements

- Reasonable controls
  - Integrity, accuracy and reliability
  - Prevent unauthorized creation, addition to, alteration of, deletion of or deterioration of records
- Quality assurance system
- Retrieval system with indexing
- ◆ Ability to produce legible hardcopies and be readable on a terminal
- Must tie to taxpayer's books and records



- Must have and make available to IRS descriptions of
  - ◆ Electronic storage system & procedures
  - ♦ Indexing system
- ◆ During an exam, taxpayer must
  - ◆ Retrieve and reproduce records
  - ◆ Provide IRS with resources to locate, retrieve, read and reproduce records
- ♦ No agreements limiting IRS access to system
- Must maintain hardware necessary to read records

## The End



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