

A 3D rendering of the letters 'WWW' in a bold, metallic, sans-serif font, positioned above a 3D map of the world. The map is also rendered in a metallic, 3D style, showing the continents and oceans. The entire scene is set against a light gray background with a subtle gradient.

WWW

# PCFAC Presentation

Key Elements for a Secure/Reliable Home/Office Network

Ocean-Direct/Berner Systems

# Topics

## Security – Risk Management

- 1 Keeping your credit customer data secure  
This is all about information risk management

## Network – Cloud Computing

- 2 How to use this new tool and integrate it into your office/home

## Backup and Recovery

- 3 Suggestions for system setup and backup of data

# Security

## CIA TRIAD

- **Confidentiality**

**Information security - infosec**

**-protect information from those that should not have access**

- **Integrity**

**Integrity of systems and information**

**-who has access, who can edit**

- **Availability**

**Generally done by others in an organization**

**-this is just about keeping the systems running**

# Security

Managing risk to our information assets

2 Key Questions

## What is the Benefit?

1

It is important that the “security” people understand the business and its objectives’

Customer trust – losing it is a cost of business.

In a world where people are already nervous and the cost of switching is minimal, a single breach may or may not doom a business.

## What constitutes Success?

2

Is it that you did not get hacked?

Consequences from breaches.

Accountability – often an appalling lack of consequences.

# Security

## Inappropriate Acceptance of Risk

- **Many failures arise from an inappropriate acceptance of risk**

**Human nature to underestimate the risks and over estimate the benefits**

- **We understate risks we do not understand such as cyberspace – difficult to visualize**

**Far easier for understand risks in relation to physical objects, like a car, a house or other objects**

- **We sign credit cards and store them with our cheques. We through bank statements in the garbage.**

*“The most critical aspect of InfoSec is an accurate assessment of risk”*

# Security

## A blue Print – 4 central aspects to guide InfoSec

### Keep risk at an acceptable level

1

Make sure the lights stay on or offS as appropriate.  
Make sure information is available to those who need it and not to those who do not.  
Keep risk to an acceptable level.

### Enable business

2

Not stop it!  
Role of InfoSec is not to protect business from itself.  
Role of InfoSec is to help protect business and achieve its objectives, while managing risk.

# Security

## A blue Print – 4 central aspects to guide InfoSec

### Advise on risk

3

InfoSec has an operational role, managing network devices, security software, and other software .

InfoSec is most visible to an organization on the operational side.

This is also the area that InfoSec can have the broadest impact – the advisory capacity.

Infosec acts here as in internal consultant, lending the security prespective to projects and the business.

### Establish risk management policies/procedures

4

InfoSec helps establish and then manages the policies and procedures.

They help establish the security policies to codify the companies risk tolerance and the principles of managing them.

Implement the policies.

# Security

## Tools

- **Use antivirus/antispyware**  
Lots of good products – free and paid  
Keep virus/spyware definitions up-to-date
- **Use separate computers for work**
- **Do not read emails or click on attachments from people you do not know**
- **New router/Specialized hardware – eg ArcSite and CA**

# Network – Cloud Computing

Next big trend

- **Simply** – a way to add capacity and/or capabilities, without investing in new infrastructure
- **Hardware and operating system independant**
- **SaaS** – software as a service – applications delivered through the browser
- **Online secure storage**

# Network – Cloud Computing

Next big trend

- **Works with multiple work environments**
  - Office/home/on the road
- **Employees separated geographically**
- **Collaboration on developing documents**
- **Email, applications and/or data storage**

# Network – Cloud Computing

Next big trend

- **Security - cloud computing is as safe or better than most on-site systems**
- **The cloud is not a fix for bad practices**
- **Apple building a \$1 billion data center**
- **WebEx/Basecamp**

# Network – Cloud Computing

## Google Apps/Docs

- **500,000 companies using it (10,000,000 users)**
- **3,000 new firms signing up daily**
- **Distributed work environments**
  - **Work-from-home**
  - **Work-from-road**
- **Allows access from mobile devices**
- **For small and medium sized businesses cloud based email is cheaper**

# Backup and Recovery

- Set up a routine that fits your tolerance to data loss
- How to do it
  - Hard drives
  - Offsite
  - DVDs
  - Cloud
- Creat system image
  - Great tools – Win7/Vista
- XP gone as of Oct 22, 2010, support ending April 8, 2014

Ocean-Direct/Berner Systems

**THANK YOU!**

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