

# Self-Encrypting HDDs and SSDs

**Robert Thibadeau, Ph.D.**  
**Wave Systems Corp.**

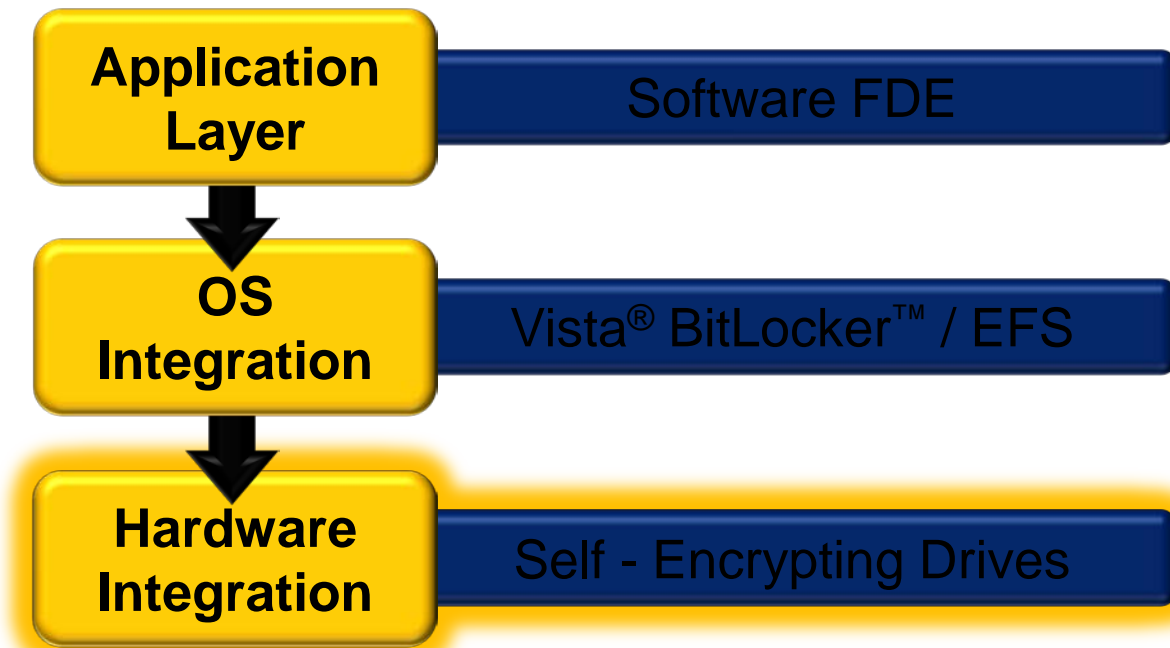
# Self-Encrypting Drives



**Transforming the way  
you protect your  
business information**

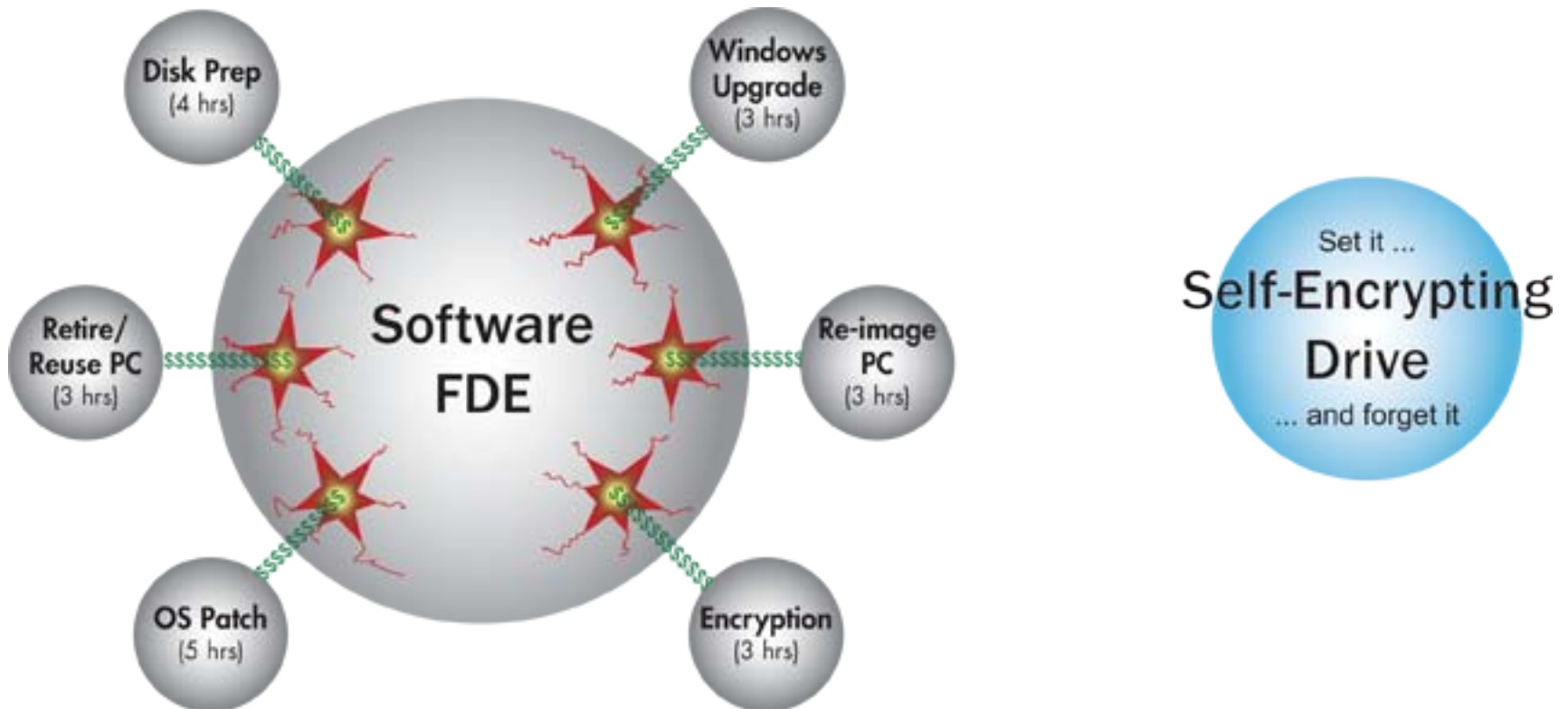
# Evolution of Data Protection Solutions

## *Migration to Hardware*



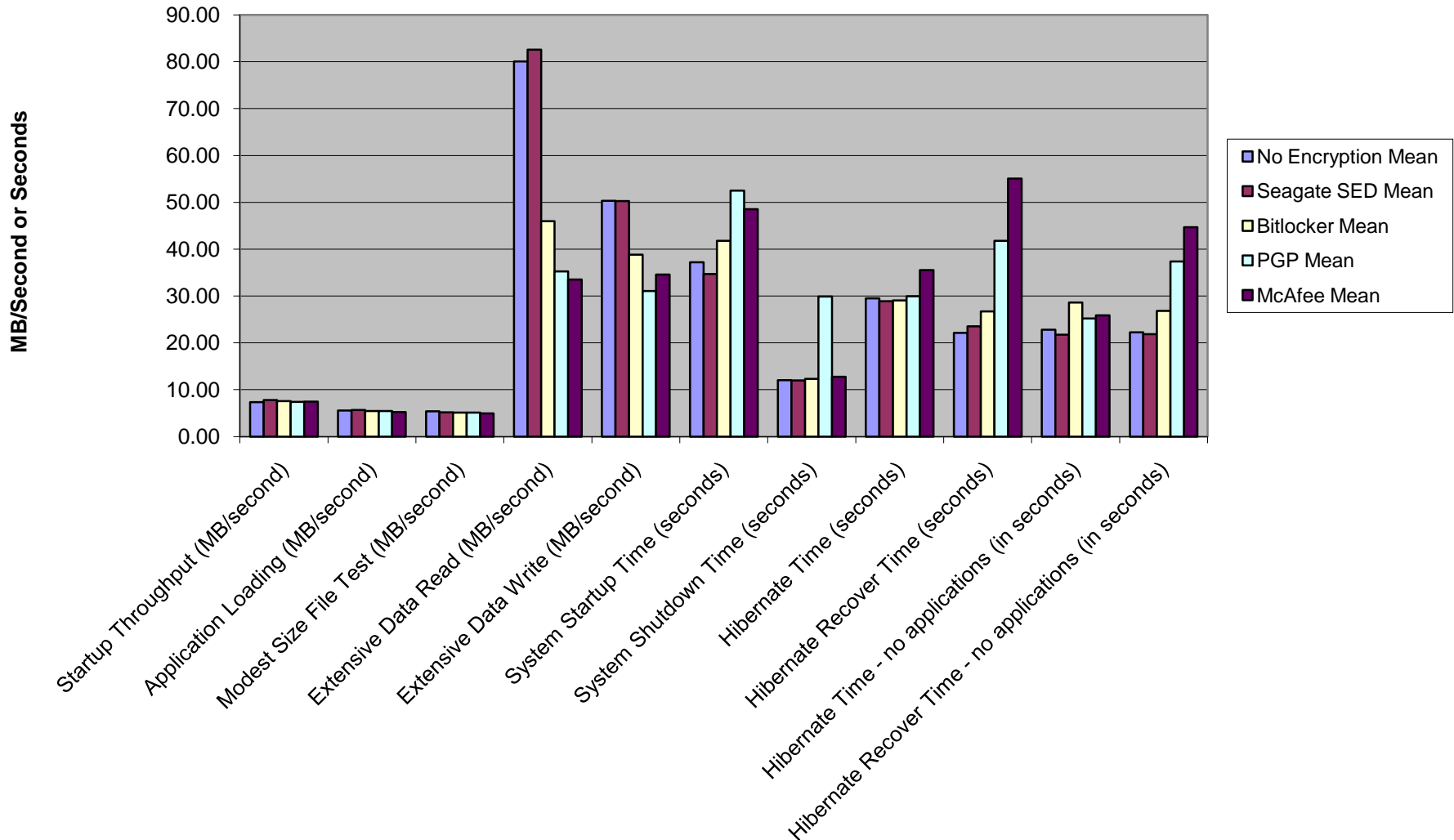
**Faster, Simpler, Lower Cost!**

# FDE Deployment Considerations



# SED vs. SW FDE

## Mean Results



# Self-Protecting Self-Encrypting Drives

## □ Definition?

# How do they work

- ❑ KEK not MEK
- ❑ Opal: Shadow MBR and Preboot
  - ❑ Self-Healing MBR & Hypervisor Demo

# Data Breach Headlines

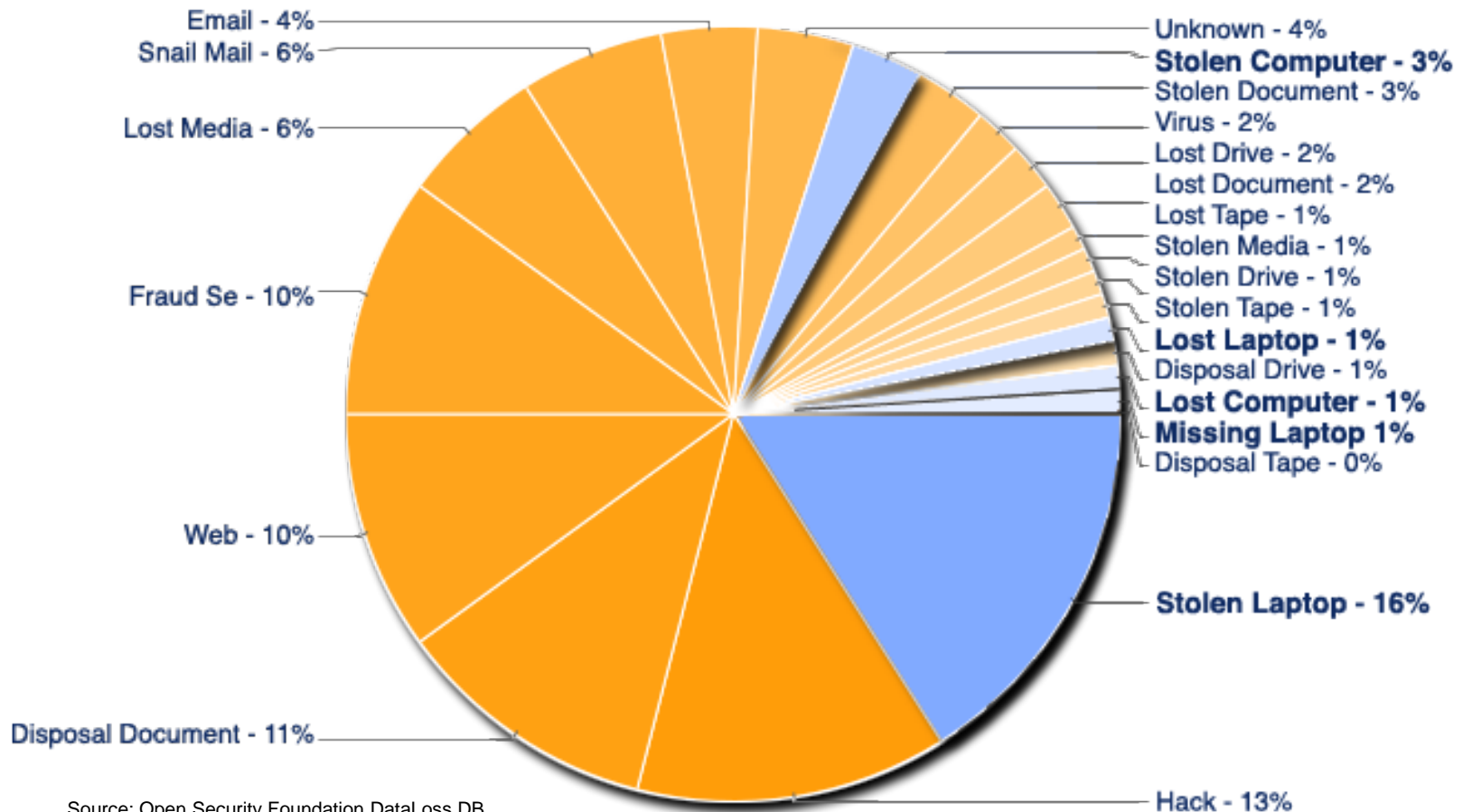
- Organization:  
Blue Cross  
Blue Shield
- Breach Type:  
Stolen Laptop
- No of Records:  
850,000
- Date:  
October 6, 2009

The screenshot shows the InformationWeek Healthcare website. The main navigation bar includes Home, News, Blogs, Software, Security, Hardware, Mobility, Windows, Internet, Global CIO, Government, Healthcare, and Financial. The article headline is "Laptop Theft Nets Data On 800,000 Doctors". The byline is "By Thomas Claburn, InformationWeek" dated October 15, 2009. The article text states: "The theft of a laptop belonging to an employee of an insurance trade group has put hundreds of thousands of physician around the country at risk of identity theft. The laptop, belonging to an employee of the Blue Cross and Blue Shield Association (BCBSA), was stolen from a car in late August, according to reports in the Boston Globe and the Chicago Tribune. It contained a database listing the business and personal information of about 800,000 doctors." A sidebar on the right features "Featured Whitepaper" and "The Latest Security News" with links to "Google Launches Music Service", "Verizon Droid Targets iPhone", and "Google's 'Gov Cloud' Wins \$7.2 Million Los Angeles Contract".



# Stolen or Lost Computers are The #1 Cause of Data Breaches

**Incidents by Breach Type — 2009**



Source: Open Security Foundation DataLoss DB

# 45 States and the District of Columbia Have Notice of Breach Laws

