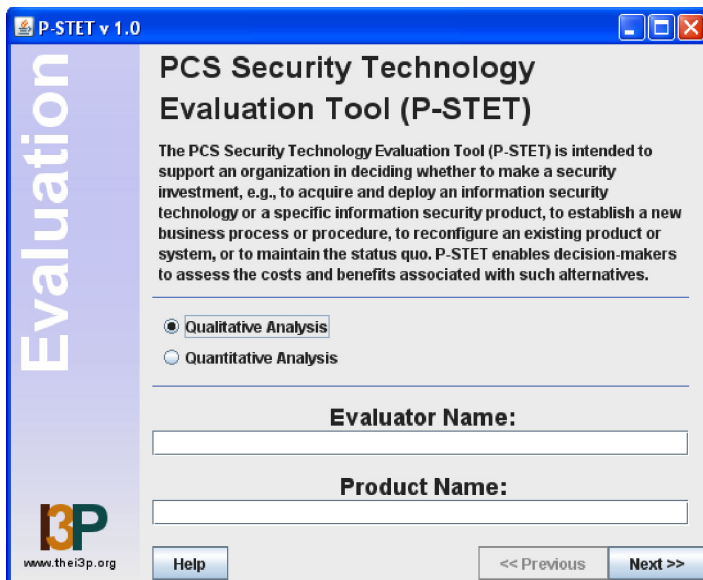




PCS Security Technology Evaluation Tool (P-STET)

Overview

The PCS Security Technology Evaluation Tool (P-STET) assists in the security technology decision making process from a cost/benefit perspective. It aids in addressing such questions as whether to acquire and deploy new security technology, to reconfigure an existing product or system, or to maintain status quo.

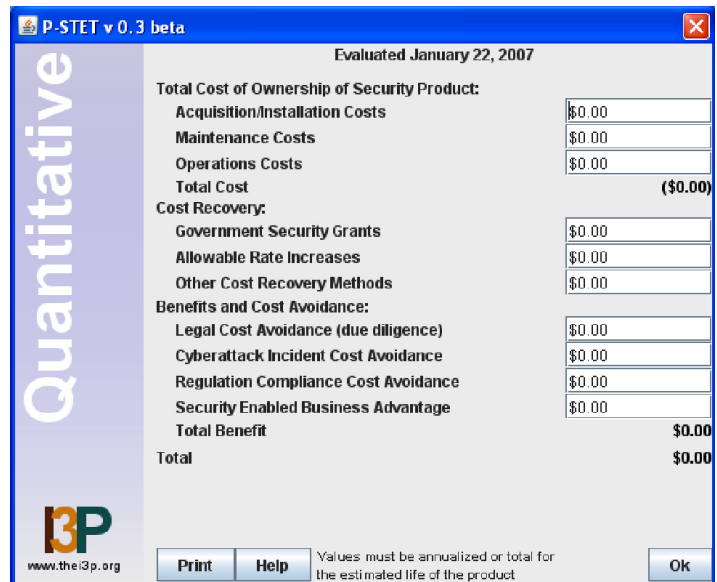


P-STET offers both a qualitative and quantitative option. P-STET is most efficient when tailored to an organization's security cost/benefit environment. It then serves as both a guide to show what types of security questions should be addressed and as a means to analyze the data gathered from the questions to make an informed decision.

Features

Quantitative

The quantitative option provides a straightforward way to express costs/benefits in terms of dollars. It relies on the organization to quantify benefits or



cost avoidances, and, therefore, best serves as a guide to ensure various cost and benefit angles are evaluated.

Qualitative

The qualitative option allows the organization to assess costs by levels with respect to security and PCS budgets, operational impacts, and opportunity costs. Costs that may be expressed relative to security and PCS budgets include:

- Acquisition/installation costs – design as well as configuration costs
- Maintenance costs – time, effort, and dollars expended on scheduled and unscheduled maintenance, upgrades, and patching
- Operations costs – time, effort, and expertise required to use the technology or product effectively as part of normal operations

Operational impacts include latency and decreased productivity/performance as a result of using the security technology or product.

Opportunity costs include potential future problems with interoperability with PCS components and/or with other security technologies or products.

Researcher Contact Information



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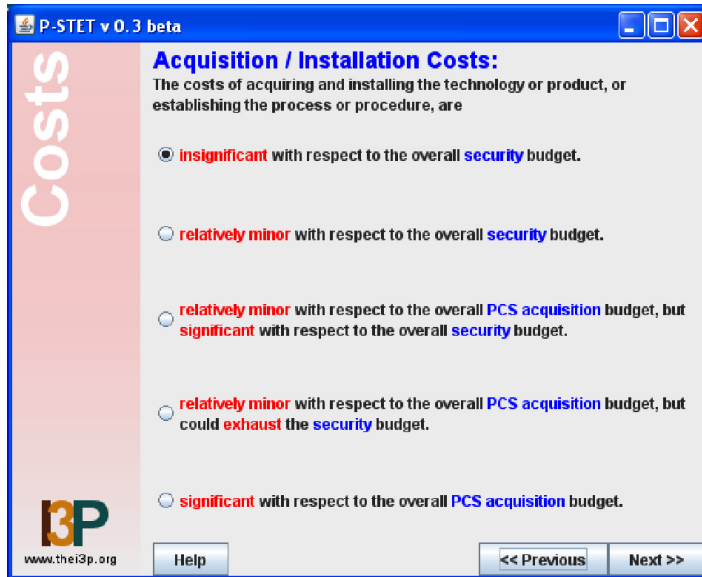
About Sandia National Laboratories

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000

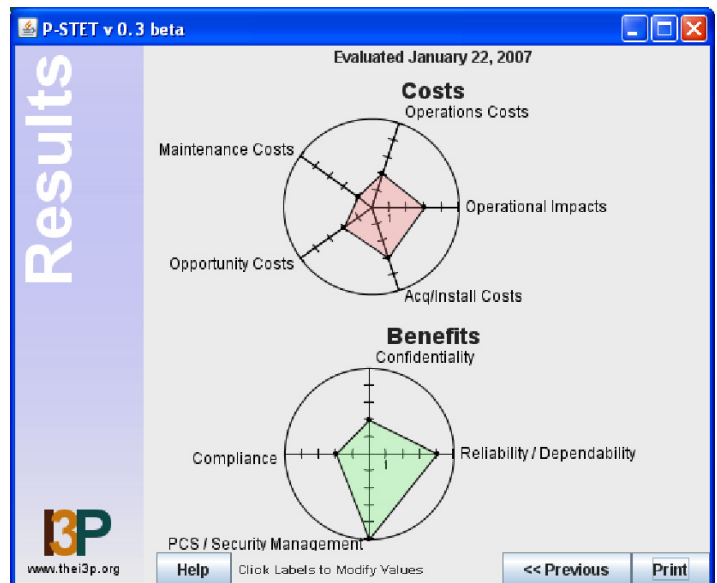
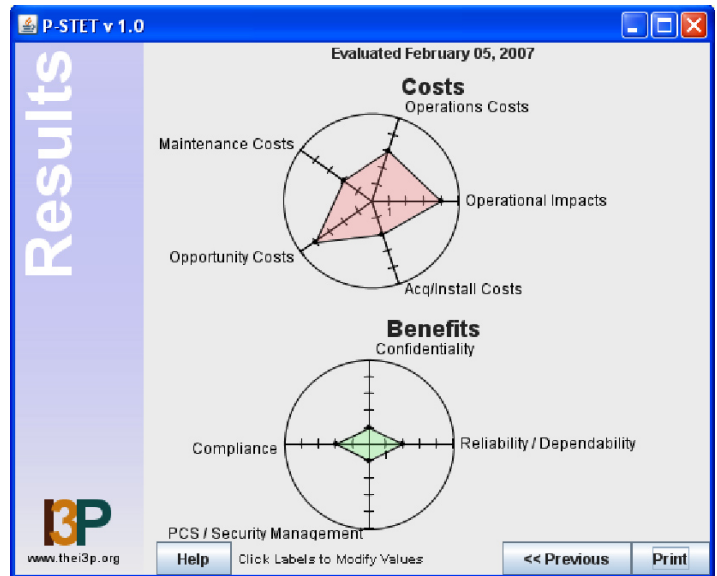
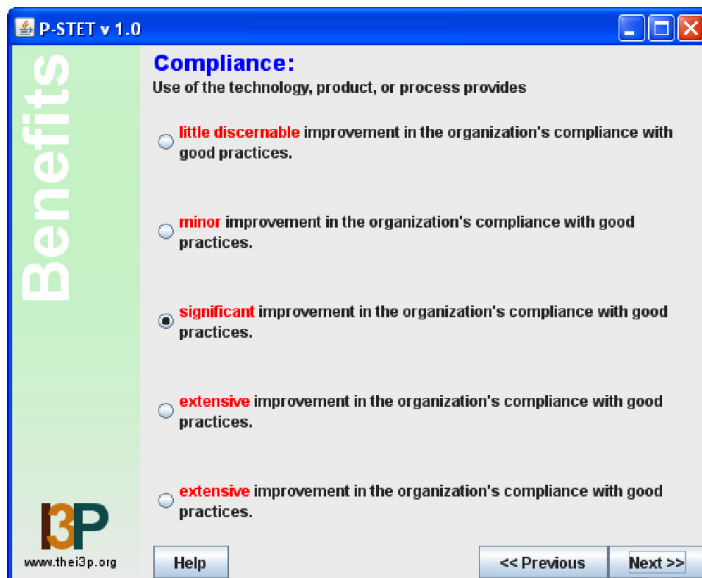
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Cost “ranges” should be tailored to the organization. One example might be

- Insignificant – 1% or less
- Relatively minor – 5% or less
- Significant – 25% or less
- Extensive – 26% or greater



Benefits are represented in terms of improvements to the organization’s operations and are also assessed by levels with respect to some benchmark such as compliance with good practices.



Results are displayed graphically using radar charts, allowing the user to make a more intuitive decision. The shaded area of each chart represents the overall cost and benefit of the security investment. A good investment is denoted when the ratio of benefit shaded area to cost shaded area is large.

When choosing among multiple products, a qualitative evaluation can be performed for each. Comparing the results charts can aid in deciding whether an optimal product exists.

Installing P-STET version 1.0

The PCS Security Technology Evaluation Tool (P-STET) requires the Java 2 Standard Edition (J2SE). The J2SE Runtime Environment (JRE) must be Java 5.0 or Java 6.0 (i.e. version 1.5.0, or newer). The JRE is available at <http://java.sun.com/javase/downloads/>. P-STET will run on any platform supported by the JRE, including Windows, Mac OS X, and Linux.