The Total Economic Impact™ Of Akamai Edge Security Products For Broadcasting And OTT Customers

Cost Savings And Business Benefits Enabled By Edge Security Products For Broadcasting/OTT Customers
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Executive Summary

Akamai provides products that enable broadcasters and over-the-top (OTT) companies to deliver video content to multiple distribution channels. Akamai also provides edge security products that enable these companies to better secure themselves and their content.

Akamai commissioned Forrester Consulting to conduct a Total Economic Impact™ (TEI) study and examine the potential benefits broadcasting and OTT enterprises may realize by deploying the following Akamai edge security products: Kona Site Defender (KSD), Prolexic, Bot Manager, Enterprise Threat Protector (ETP), and Enterprise Application Access (EAA). The purpose of this study is to provide readers with a framework to evaluate the potential financial benefits these Akamai edge security products have on broadcasting and OTT organizations.

To better understand the benefits, risks, and flexibility associated with this investment, Forrester directly interviewed several Akamai customers and surveyed 30 more customers with experience using Akamai edge security products for broadcasting and OTT customers.

For this TEI study, Forrester has created a composite Organization to illustrate the benefits of investing in Akamai's edge security products. Based on characteristics of the interviewed and surveyed customers, the composite Organization is an enterprise-sized broadcasting, OTT media, or internet/social video company headquartered in the US, UK, India, or Canada with annual revenues of $1.5 billion.

Prior to using Akamai’s edge security products, the broadcasting/OTT Organization was using a mix of disparate and costly third-party and homegrown security solutions.

Key Findings

Quantified benefits. The following risk-adjusted present value (PV) benefits total $8,787,414 over three years and are representative of those experienced by the interviewed and surveyed companies:

› Cost savings — fewer FTEs needed to support Akamai edge security products, $1,052,310. Compared to its pre-Akamai security environment, the Organization saves 2.5 security administrator FTEs in Year 1 (ramp year) and 3.5 FTEs in Years 2 and 3 of our analysis.

› Incremental revenue (gross profit), $7,460,556. Prior to its investment in Akamai, the Organization was losing revenue due to inadequate edge security. Akamai helps the Organization avoid losing 5% of its revenue and therefore 5% of its resulting gross profit. The $7,460,556 quantified benefit is the gross profit associated with avoiding the loss of revenue.

› Reduced spending on hardware, $149,211. The Organization would have continued to invest in security infrastructure such as storage, servers, operating system licenses, and annual maintenance to maintain its on-premise legacy security products that were subsequently replaced by Akamai’s edge security products.

› Savings from decommissioning legacy security products, $125,337. The Organization decommissions the following legacy security products: distributed denial-of-service (DDoS), bot management solution, virtual private network (VPN) services, virtual desktop software subscriptions, and single sign-on (SSO) and multifactor authentication (MFA) services.
Unquantified benefits. The interviewed and surveyed customers experienced the following benefits, the monetary value of which were not quantified for this study:

› Improved site performance during an attack. Estimated load time (in milliseconds) of site during an attack was 101.7 milliseconds before Akamai and 70 milliseconds with Akamai.
› A 5.88% reduction in churn rates and an 11.8% decrease in bounce rates.
› An improvement in click-through rates, a 6.3% improvement in conversion rates, and improved customer satisfaction.

Forrester's interviews and surveys with over 30 existing customers and subsequent financial analysis found that the composite Organization experienced benefits of $8,787,414 (present value) over three years.

Costs. Interviewed and surveyed customers incurred internal labor costs and Akamai fees associated with their investment in Akamai edge security products. For confidentiality reasons at the request of Akamai, these costs are not quantified in this case study. The cost categories are described in the Costs section. For more information regarding Akamai fees, please contact your Akamai representative.
The TEI methodology helps companies demonstrate, justify, and realize the tangible value of IT initiatives to both senior management and other key business stakeholders.

TEI Framework And Methodology

From the information provided in the interviews, Forrester has constructed a Total Economic Impact™ (TEI) framework for those broadcasting and OTT customers considering an investment in Akamai edge security products.

The objective of the framework is to identify the benefit, flexibility, and risk factors that affect the investment decision. Forrester took a multistep approach to evaluate the impact that Akamai edge security products can have on the broadcasting/OTT Organization:

**DUE DILIGENCE**
Interviewed Akamai stakeholders and Forrester analysts to gather data relative to edge security products for broadcasting and OTT customers.

**CUSTOMER INTERVIEWS AND SURVEY**
Interviewed or surveyed over 30 broadcasting and OTT enterprise customers using Akamai edge security products to obtain data with respect to benefits risks and flexibility.

**COMPOSITE ORGANIZATION**
Designed a composite Organization based on characteristics of the interviewed and surveyed customers.

**FINANCIAL MODEL FRAMEWORK**
Constructed a financial model representative of the interviews using the TEI methodology and risk-adjusted the financial model based on issues and concerns of the interviewed organizations.

**CASE STUDY**
Employed three fundamental elements of TEI in modeling Akamai edge security products for broadcasting and OTT customers: benefits, risks and flexibility. Given the increasing sophistication that enterprises have regarding benefit analyses related to IT investments, Forrester’s TEI methodology serves to provide a picture of the total economic impact of purchase decisions. Please see Appendix A for additional information on the TEI methodology.

**DISCLOSURES**

Readers should be aware of the following:

This study is commissioned by Akamai and delivered by Forrester Consulting. It is not meant to be used as a competitive analysis.

Forrester makes no assumptions as to the potential benefits that other organizations will receive. Forrester strongly advises that readers use their own estimates within the framework provided in the report to determine the appropriateness of an investment in Akamai edge security products for broadcasting/OTT customers.

Akamai reviewed and provided feedback to Forrester, but Forrester maintains editorial control over the study and its findings and does not accept changes to the study that contradict Forrester’s findings or obscure the meaning of the study.

Akamai provided the customer names for the interviews and survey but did not participate in the interviews.
Akamai’s Edge Security Products For Broadcasting And OTT Customers — A Customer Journey

BEFORE AND AFTER AKAMAI’S PRODUCTS FOR BROADCASTING AND OTT CUSTOMERS

Interviewed And Surveyed Customers

For this study, Forrester conducted several live interviews and surveyed 30 Akamai edge security customers. Interviewed and surveyed customers were from North America, EMEA, and APAC and included the following attributes:

- Enterprise-sized and global broadcasting, over-the-top media, or internet/social video organizations. Average annual revenue is $1.5 billion.
- Each customer has used at least two of the following Akamai edge security products for more than six months: KSD, Prolexic, Bot Manager, EAA, and ETP.
- Seventy-seven percent of surveyed customers use Akamai’s Content Delivery Network (CDN) for image delivery, streamed or downloaded video, website delivery, and API traffic.
- Prior to Akamai, customers were using either third-party solutions or a mix of third-party and homegrown security solutions.

Key Challenges And Goals

The interviewed and surveyed customers had the following challenges and goals they were hoping to satisfy with an investment in Akamai edge security products:

- To reduce application downtime (and increase application uptime) during malicious attacks.
- To protect intellectual property from data breaches.
- To simplify and reduce the cost of their IT security environment.
- To protect their brand reputations.

Composite Organization

Based on the interviews, Forrester constructed a TEI framework, a composite company, and an associated benefit analysis that illustrates the areas financially affected. The composite Organization is representative of the 30+ companies that Forrester interviewed or surveyed and is used to present the aggregate financial analysis in the next section. The composite Organization that Forrester synthesized from the customer interviews has the following characteristics:

- The Organization is a global, enterprise-sized broadcasting, over-the-top media, or internet/social video company with annual revenues of about $1.5 billion.

“Using Akamai edge security products has helped us provide consistent service to customers, even during an attack.”

83% of surveyed customers
The Organization uses the following Akamai edge security products: KSD, Prolexic, Bot Manager, EAA, and ETP.

An average of 248 applications are protected by Akamai edge security products.

The Organization uses Akamai’s Content Delivery Network for image delivery, streamed or downloaded video, website delivery, and API traffic.

Key Results

Customer interviews and surveys revealed the following quantified benefits from an investment in Akamai’s products for broadcasting and OTT customers:

- **Cost savings — fewer FTEs needed to support Akamai edge security products.** Compared to its pre-Akamai security environment, the Organization saves 2.5 security administrator FTEs in Year 1 (ramp year) and 3.5 FTEs in Years 2 and 3.

- **Incremental revenue (gross profit).** Akamai helps the Organization reduce lost revenue and resulting gross profit by 5%.

- **Reduced spending on hardware.** The Organization would have continued to invest in on-premises security infrastructure such as storage, servers, operating system licenses, and annual maintenance to maintain its legacy security products that were subsequently replaced by Akamai’s edge security products.

- **Savings from decommissioning legacy security products.** With its investment in Akamai edge security products, the Organization decommissions the following legacy security products: DDoS, bot management solution, VPN services, and virtual desktop software subscriptions.

“If Akamai’s capabilities were to be maintained in-house, we would have to hire, train, and retain substantial and expensive security resources. We find that it’s more cost-effective to use Akamai’s products than attempt to hire and retain scarce security talent.”

Head of security and compliance

“Using Akamai edge security products has improved customer satisfaction.”

100% of surveyed customers
Analysis Of Benefits

QUANTIFIED BENEFIT DATA AS APPLIED TO THE COMPOSITE

Total Benefits

<table>
<thead>
<tr>
<th>REF.</th>
<th>BENEFIT</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>TOTAL</th>
<th>PRESENT VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atr</td>
<td>Cost savings — fewer FTEs to support edge security</td>
<td>$337,500</td>
<td>$472,500</td>
<td>$472,500</td>
<td>$1,282,500</td>
<td>$1,052,310</td>
</tr>
<tr>
<td>Btr</td>
<td>Incremental revenue (gross profit) associated with Akamai</td>
<td>$3,000,000</td>
<td>$3,000,000</td>
<td>$3,000,000</td>
<td>$9,000,000</td>
<td>$7,460,556</td>
</tr>
<tr>
<td>Ctr</td>
<td>Reduced spending on hardware</td>
<td>$60,000</td>
<td>$60,000</td>
<td>$60,000</td>
<td>$180,000</td>
<td>$149,211</td>
</tr>
<tr>
<td>Dtr</td>
<td>Savings from decommissioning legacy security products</td>
<td>$50,400</td>
<td>$50,400</td>
<td>$50,400</td>
<td>$151,200</td>
<td>$125,337</td>
</tr>
<tr>
<td></td>
<td>Total benefits (risk-adjusted)</td>
<td>$3,447,900</td>
<td>$3,582,900</td>
<td>$3,582,900</td>
<td>$10,613,700</td>
<td>$8,787,414</td>
</tr>
</tbody>
</table>

Benefit 1: Cost Savings — Fewer FTEs To Support Edge Security

The Organization has invested in the full suite of Akamai’s edge security products, including KSD, Prolexic, Bot Manager, ETP, and EAA. Compared to its pre-Akamai security environment, it can now save 2.5 security administrator FTEs in Year 1 (ramp year) and 3.5 FTEs in Years 2 and 3. Interviewed and surveyed customers reported:

› A 26.5% reduction in the hours to recover from an attack with Akamai (309 hours before Akamai; 227 hours with Akamai).
› A 65% reduction in the number of data breaches and a 27% reduction in the labor cost for remediating a data breach.
› A 15% savings in time spent researching and adjusting rule changes with Akamai edge security products.
› Improved ability to protect a broad range of applications from DDoS attacks.
› Labor savings from no longer having to manage multiple appliances. They manage the configuration in one place, then push it out to all Akamai servers. There’s also a reduction in risk in terms of getting the policies correct for multiple appliances.
› Labor savings in the reduced volume of attack traffic that Akamai stops, including a reduction in successful attacks to web applications.
› Akamai takes care of all the due diligence related to keeping the Organization’s web application firewall (WAF) rules up to date.

Risks. Most interviewed and surveyed customers were not yet using the full complement of Akamai edge security products discussed in this case study and therefore reported reduced and variable FTE labor savings. To account for these variations, Forrester adjusted this benefit downward by 10%, yielding a three-year risk-adjusted total PV of $1,052,310.

Impact risk is the risk that the business or technology needs of the organization may not be met by the investment, resulting in lower overall total benefits. The greater the uncertainty, the wider the potential range of outcomes for benefit estimates.
Benefit 2: Incremental Revenue (Gross Profit) Associated With Akamai

Digital broadcasting and OTT businesses depend on constant, uninterrupted connectivity for the benefit of their customers. Websites, applications, and cloud services are potential targets for DDoS and other attacks, which can significantly harm or even cripple digital businesses. Interviewed and surveyed customers reported the following benefits of Akamai products, which contribute to incremental revenue:

- Reduced web fraud from bots that engage in credential stuffing, fraudulent free trials and coupons, and other malicious activity.
- Improved web performance by blocking, delaying, or redirecting malicious bots.
- Protecting their organizations’ intellectual property by redirection of bots intending to scrape their websites.
- Reduced lost web traffic by 7.3%.
- Reduced lost views by 10%.
- Reduced lost revenue and resulting gross profit by 5%.

Prior to its investment in Akamai, the Organization was losing revenue due to inadequate edge security. Akamai helps the Organization avoid losing 5% of its revenue and therefore 5% of its resulting gross profit. The $7,460,556 quantified benefit is the gross profit associated with avoiding the loss of revenue. Forrester estimates the gross profit margin to be 80% in the broadcasting and OTT industry.

Risk. The interviewed and surveyed customers had wide ranging total broadcasting revenues and different revenue results.

To account for these variations, Forrester risk-adjusted this benefit downward by 25%, yielding a three-year risk-adjusted total PV of $7,460,556.
Benefit 3: Reduced Spending On Hardware

Interviewed customers shared their experiences with no longer needing on-premise infrastructure platforms for security products, data, computational power, and engineering services. Forrester assumes the Organization would have needed to spend $75,000 annually on updating security infrastructure such as storage, servers, operating system licenses, and annual maintenance to maintain its on-premise legacy security products that were subsequently replaced by Akamai’s edge security products.

On average, the interviewed customers were saving $75,000 annually on hardware infrastructure for legacy security products.

**Risk.** The interviewed customers had a wide range of legacy products and costs that required hardware infrastructure. Forrester applied a 20% risk adjustment to reflect these variations in products and costs saved.

To account for these risks, Forrester adjusted this benefit downward by 20%, yielding a three-year risk-adjusted total PV of $149,211.

### Reduced Spending On Hardware: Calculation Table

<table>
<thead>
<tr>
<th>REF.</th>
<th>METRIC</th>
<th>CALC.</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Before Akamai — costs of maintaining on-premises hardware infrastructure</td>
<td>Interviews</td>
<td>$75,000</td>
<td>$75,000</td>
<td>$75,000</td>
</tr>
<tr>
<td>Ct</td>
<td>Reduced spending on hardware</td>
<td>C1</td>
<td>$75,000</td>
<td>$75,000</td>
<td>$75,000</td>
</tr>
<tr>
<td>Ctr</td>
<td>Reduced spending on hardware (risk-adjusted)</td>
<td></td>
<td>$60,000</td>
<td>$60,000</td>
<td>$60,000</td>
</tr>
<tr>
<td></td>
<td>Risk adjustment</td>
<td>↓20%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Benefit 4: Savings From Decommissioning Legacy Software Products

Interviewed and surveyed customers reported savings from decommissioning legacy security products that were replaced by Akamai edge security products. The Organization was able to decommission the following security products:

- Previous DDoS or bot management solutions.
- VPN services.
- Virtual desktop software subscriptions.
Modeling and Assumptions. On average, the interviewed customers were saving $63,000 annually on various legacy software security products, including some of the products listed above.

Risk. The interviewed and surveyed customers had a wide range of legacy products and costs (some open source) that were replaced by Akamai products. Forrester applied a 20% risk adjustment to reflect these variations in products and cost saved.

<table>
<thead>
<tr>
<th>REF.</th>
<th>METRIC</th>
<th>CALC./SOURCE</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Value of decommissioned products</td>
<td>Interviews</td>
<td>$63,000</td>
<td>$63,000</td>
<td>$63,000</td>
</tr>
<tr>
<td>Dt</td>
<td>Savings from decommissioning legacy security products</td>
<td>D1</td>
<td>$63,000</td>
<td>$63,000</td>
<td>$63,000</td>
</tr>
<tr>
<td>Dtr</td>
<td>Savings adjustment from decommissioning legacy security products (risk-adjusted)</td>
<td>↓20%</td>
<td>$50,400</td>
<td>$50,400</td>
<td>$50,400</td>
</tr>
</tbody>
</table>

Forrester: The Impact Of A Breach And The Benefits Of Akamai Edge Security Products For Broadcasting And OTT Customers

For the 30 customers surveyed, there was an average 65% reduction in number of data breaches and a 27% reduction in the labor cost for remediating a data breach. Each customer reported sleeping better at night knowing Akamai was protecting its internet-facing applications and APIs deployed in their data centers or the public cloud.

Using Forrester’s internal research, we can describe the potential cost categories of a breach.

How much would a breach cost a broadcasting and OTT organization? It depends — on actions taken prior to the breach, the circumstances of the breach itself, and IT’s response to the breach. And not all costs are direct, immediately incurred costs. Employee data breaches may affect morale, attrition, and future hiring of skilled talent. Breaches of intellectual property data may directly affect both reputation and the bottom line over several years. There are numerous factors that contribute to costs of a breach; here’s a sample list:

› Type of data that was compromised.
› If personal data, number of records and individuals affected.
› Cause of the breach.
› Nature and timing of public disclosure.
› Whether or not the data was encrypted.
› Cyberinsurance.
› A tested incident response plan.
› Customer-facing breach response.

While breach costs can vary widely, there are certain categories of common costs. Broadcasters/OTTs should consider both direct and indirect costs:

“Using Akamai edge security products has helped us improve click-through rates and conversion rates.”

83% of surveyed customers
\[\textbf{Response and notification.}\] This includes incident response costs and the operational and service costs for external communications, such as notifying affected individuals or customers as well as the government or regulatory bodies that are required by law.

\[\textbf{Lost employee productivity and turnover.}\] Employees are often distracted from their day-to-day duties during a data breach. There may also be downtime as a result of IT taking users or systems offline to curtail the threat.

\[\textbf{Lawsuits and settlements.}\] External counsel with expertise in privacy and breach response can guide a response and help meet legal obligations.

\[\textbf{Regulatory compliance.}\] Organizations must stay current with the dynamic landscape of regulatory requirements. With the General Data Protection Regulation (GDPR) and upcoming privacy regulations coming in force, organizations will be required to provide all personal data to an individual upon request. This will likely cause operational costs to skyrocket, in addition to the fines organizations would face in the case of a breach.

\[\textbf{Brand recovery.}\] Rebuilding trust varies depending on your business and industry. The length of the downturn can also vary depending on the quality of breach response.

\[\textbf{Additional security and audit requirements.}\] This includes the cost of fixing infrastructure and onboarding new technology and equipment to remediate the initial cause of breach. It also includes any mandated security and audit requirements resulting from a legal or regulatory settlement.

\section*{Unquantified Benefits}

In addition to the quantified benefits listed above, the interviewed broadcasting and OTT customers also discussed qualitative benefits from using Akamai’s edge security products, including:

\[\textbf{Improved site performance during an attack.}\] Estimated load time (in milliseconds) of site during an attack was 101.7 milliseconds before Akamai and 70 milliseconds with Akamai.

\[\textbf{A 5.88% reduction in churn rates and an 11.8% decrease in bounce rates.}\]

\[\textbf{An improvement in click-through rates, a 6.3% improvement in conversion rates, and improved customer satisfaction.}\]

\section*{Flexibility}

The value of flexibility is clearly unique to each customer, and the measure of its value varies from organization to organization. There are scenarios in which a customer might choose to implement edge security products for broadcasting and OTT customers and later realize additional business opportunities, including:

\[\textbf{Flexible cloud choices.}\] Interviewed broadcasting and OTT customers cited their ability to choose from and across public cloud providers, not having to have settle for one cloud provider. They can put Akamai edge security products in front to provide security services in a way that’s agnostic to cloud providers. Having the ability to choose could providers adds flexibility in pricing and services.

\[97\% of survey respondents answered yes to: “Are the benefits created by Akamai edge security products greater than the costs, delivering a positive ROI?”\]
Scalability of growth, services, and devices. Delivering OTT video, software updates, games, social media, news, and other content must also be seamless, fast, and scalable. Akamai Media Delivery solutions helps broadcasters/OTTs engage audiences globally by delivering high-quality content wherever and whenever users want — and without having to build out costly infrastructure necessary to scale the growth and complexity of different delivery services and device types.

Flexibility would also be quantified when evaluated as part of a specific project (described in more detail in Appendix A).

Costs

Interviewed and surveyed customers incurred internal labor costs and Akamai fees associated with their investment in Akamai edge security products. For confidentiality reasons at the request of Akamai, these costs are not quantified in this case study. For more information regarding Akamai fees, please contact your Akamai representative. The costs categories are as follows:

- Internal labor associated with vendor selection, preplanning the implementation, and actual implementation of Akamai’s edge security products. This involved 10 FTEs working part-time over four weeks, including the CISO, security engineers, network engineers, and developers.

- Ongoing internal labor associated with managing the Akamai products and maintaining the vendor relationship with Akamai. This involved 1.5 security engineers monitoring the products and researching and adjusting rule changes with Akamai edge security products along with other security-related duties.

- Akamai’s fees, which include clean traffic rates, license/subscription fees, professional services, and training.

Compared to its pre-Akamai security environment, the Organization saves 3.5 security administrators with Akamai.
**Financial Summary**

**CONSOLIDATED THREE-YEAR RISK-ADJUSTED METRICS**

**Benefit Chart (Risk-Adjusted)**

Forrester assumes an annual discount rate of 10% for this present value benefit analysis.

These risk-adjusted benefit values are determined by applying risk-adjustment factors to the unadjusted results in each Benefit section.

### Benefits (Risk-Adjusted)

<table>
<thead>
<tr>
<th></th>
<th>INITIAL</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>TOTAL</th>
<th>PRESENT VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total benefits</td>
<td>$0</td>
<td>$3,447,900</td>
<td>$3,582,900</td>
<td>$3,582,900</td>
<td>$10,613,700</td>
<td>$8,787,414</td>
</tr>
</tbody>
</table>
Akamai Edge Security Products For Broadcasting And OTT Customers: Overview

The following information is provided by Akamai. Forrester has not validated any claims and does not endorse Akamai or its offerings. Below is a brief description of each Akamai Edge security product included in this case study.

Kona Site Defender
- Complete application protection
- Reduces risks of downtime, data theft, and website defacement
- Protects against the largest DoS and DDoS attacks
- Protects against web attacks such as SQL injection, XSS, and RFI

Enterprise Application Access
- Application Access Redefined: Secure, Simple, Fast
- Centralize your security and access control
- Keep all users off of your network and make your applications invisible to the internet
- Complete auditing and reporting of user activity

Enterprise Threat Protector
- Proactive protection against zero-day malware
- Proactive protection vs. reactive mitigation
- Instant protection without complexity or hardware
- Quick and uniform enforcement of Acceptable Use Policy

Prolexic solutions
- Expert mitigation against the broadest range of DDoS attacks with industry-leading SLAs
- Reduces business risks posed by the threat of DDoS attack
- Maintains availability of internet-facing applications
- Fast mitigation by Akamai’s 24x7 SOC, with time-to-mitigate SLA

Bot Manager
- Advanced strategies to flexibly manage the long-term business and IT impact of bots
- Provides visibility into the amount of bot traffic accessing your site
- Improves user experience by reducing the impact of bots on the web during peak traffic hours
- Prevents price and content scraping
Appendix A: Total Economic Impact

Total Economic Impact is a methodology developed by Forrester Research that enhances a company’s technology decision-making processes and assists vendors in communicating the value proposition of their products and services to clients. The TEI methodology helps companies demonstrate, justify, and realize the tangible value of IT initiatives to both senior management and other key business stakeholders.

Total Economic Impact Approach

**Benefits** represent the value delivered to the business by the product. The TEI methodology places equal weight on the measure of benefits and the measure of costs, allowing for a full examination of the effect of the technology on the entire organization.

**Costs** consider all expenses necessary to deliver the proposed value, or benefits, of the product. The cost category within TEI captures incremental costs over the existing environment for ongoing costs associated with the solution.

**Flexibility** represents the strategic value that can be obtained for some future additional investment building on top of the initial investment already made. Having the ability to capture that benefit has a PV that can be estimated.

**Risks** measure the uncertainty of benefit and cost estimates given: 1) the likelihood that estimates will meet original projections and 2) the likelihood that estimates will be tracked over time. TEI risk factors are based on “triangular distribution.”

The initial investment column contains costs incurred at “time 0” or at the beginning of Year 1 that are not discounted. All other cash flows are discounted using the discount rate at the end of the year. PV calculations are calculated for each total cost and benefit estimate. NPV calculations in the summary tables are the sum of the initial investment and the discounted cash flows in each year. Sums and present value calculations of the Total Benefits, Total Costs, and Cash Flow tables may not exactly add up, as some rounding may occur.