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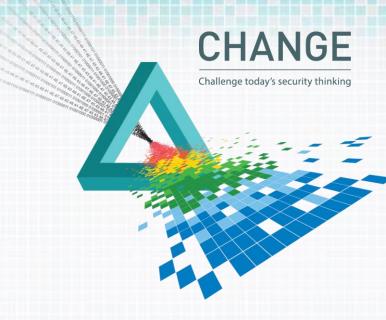
From Cowboys to Sales Engineers:

Building Mature Security Services



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Many companies and industries are facing disruptions.

Information security services that worked in stable environments can't meet new demands.

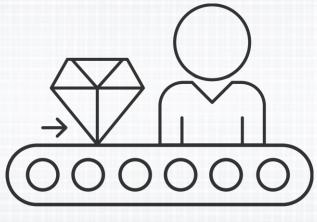
If security services aren't run like a business, 'heroic' individuals will take over with negative consequences.

We will present three case studies to show how to evolve your services and succeed during disruptions.



Information Security in Stable Environments

In stable business and technology environments, process-oriented security services deliver value with:



"Production Engineer"

Well-defined objectives and consistent processes

Timely, high-quality deliverables

Enhancement through various frameworks (e.g. CMMI, ITIL, NIST)



Business and Technology Transformation

Companies are facing dramatic business & technology disruptions but traditional security services can't scale or adapt rapidly.









Business innovation more pervasive (e.g. Uber, iWatch)

Emerging technologies accelerating

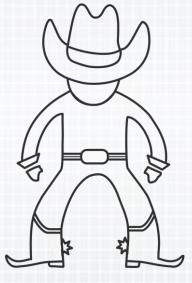
Cyber attacks intensifying (e.g. healthcare)

Unpredictable demand peaks more common



Cowboys Take Over by Default

As traditional approaches break down in dynamic or disruptive environments, "cowboys" will:



"Renegade Cowboy"

Handle demand spikes through heroics

Hire hotshot experts for each new security domain or technology

Impose inflexible solutions by waving the governance stick

Neglect service improvement and disregard customer feedback



The Problems with Cowboys

This ad hoc approach may work in the short term but will eventually lead to:

High costs and future rework

Inconsistent or reduced quality

Long ramp-up times during demand spikes

Pushback from stakeholders



Modern Security Services Development

Instead, evolve security services into businesses that scale and adapt.

Operationalize Everything

Scalable delivery with increased responsiveness and consistent quality

Delivery Operations

Sales & Marketing

Market Everywhere

Customer-focused for higher satisfaction and engagement

Generate Data-Driven Insights

Rapid investment reprioritization and strategic realignment

Data

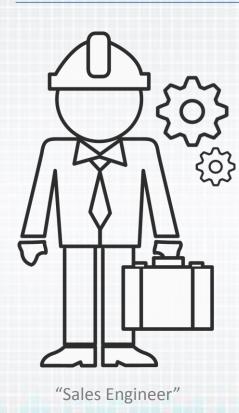
Service Offering

Always Update Product

Relevant options to meet every internal need

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Running Security Services Like a Business



Sales & Marketing

Build awareness, buy-in, and brand for security services

Service Offerings

Develop and maintain catalog of scalable services based on customer feedback

Delivery Operations

Deliver efficiently, reliably, aligned with demand

Data and Information Technology

Create, manage, and utilize data and systems to optimize all service functions

Human Resources

Source and staff with right skills, experience levels, and type (FTE/contractors)

Finance

Obtain internal or external financing to develop and deliver services

Administrative

Ensure timely execution of all active engagements (consulting engagement manager)





Product Feature and Stakeholder Gap

Security services are not managed as products and fail to meet evolving customer needs.

Prior to 2012, our security design service was becoming misaligned with stakeholders.





Product Management Approach

We treated the design service as a product and applied product management techniques to better meet stakeholder needs, e.g. moving away from single design and pricing model.

Conducted internal market research to identify feature gaps

Developed product roadmap with a list of prioritized features

Offered product choices and tiered pricing (e.g. number of technologies)

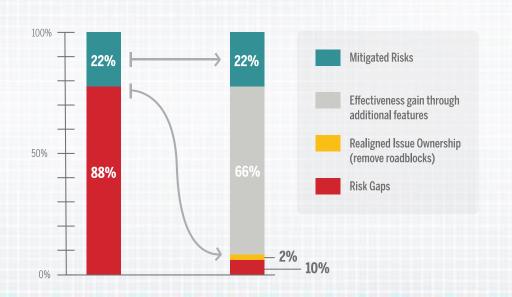
Promoted accountability for engagement decisions (signoffs)

Collected data for strategic decision making (process & delivery metrics)



Benefits of Security Product Management

The new security design service offered multiple size and pricing levels, resulting in increased coverage and a dramatic decrease in risks.



Other benefits:

Early adoption of security solutions

Reduced rework

Improved operational visibility

Lessons Learned

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Adapt service features to stakeholder needs using frequent feedback

Provide only realistic

design options with tiered cost and risk levels

Hold stakeholders accountable for their decisions

Conduct customer experience surveys





Passive Demand Management

Security services can't manage demand effectively without marketing.

Prior to 2013, IT leaders at my organization lacked awareness of the design service or understanding of its value proposition, resulting in:

Sporadic or delayed engagements

Low or variable security utilization

Risk of being replaced Excessive security risks



Marketing Development Approach

In 2012, we started to actively market to better manage demand and resource utilization.

Customized messages to promote positive outcomes (e.g. risk, business value)

Built proactive marketing campaigns

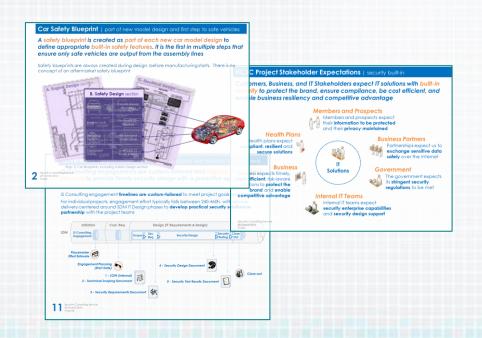
Discovered stakeholder incentives, drives, and needs (e.g. integration ease, costs)

Surveyed stakeholder satisfaction and engagement (e.g. repeat "sales")



Sample 'Pre-Sales' Marketing Collateral

We customized messages to each stakeholder, e.g. ease of technical integration for IT or recurring costs for business. The presentations:



Used non-IT metaphors

Addressed misconceptions

Proactively answered questions

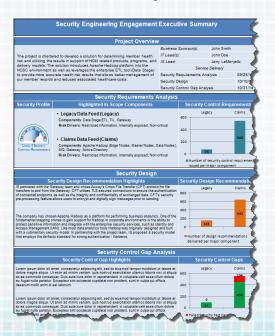
Invested in visuals



Sample 'Post-Sales' Marketing Collateral

We connected deliverables to specific business benefits.

Executive Summary & Thank You emails



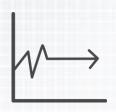
Created 1-page visual summary supported by hard data

Thanked all our stakeholders to gain future support

Benefits of Service Marketing











Reduced pushback and clear value proposition

More predictable demand

Pre-allocated budget instead of variable

Enhanced product features through feedback

Lessons Learned

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Develop clear value proposition for the service

Build visually appealing, concise, and relevant service marketing materials

3 Always Be Closing (ABC)

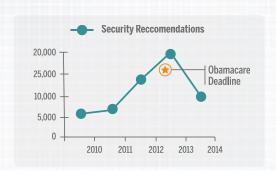
Enhance customer engagement by building long-term relationships





Security Design Services Difficult to Scale

Major business changes driven by healthcare reform triggered a IT implementation spike from 2011-2013. Initially, my organization thought security architecture could not scale.



Typical responses and outcomes:

Hire many contract architects

Overload existing staff

Take shortcuts on standards and process

Inconsistent quality

High cost or future rework

Resource burnout, turnover, and lost institutional knowledge



Building Security Scalability Approach

We maximized service scalability by using a predefined set of product components rather than building custom deliverables.

Mature architecture process to analyze, design, and make specific technical security recommendations

Technology-agnostic security systems analysis to create technical security recommendations

Prebuilt repository of custom requirements, test cases, and communications

Resource pool of generalist security experts with a process mindset



Sample Process Artifacts

We used libraries of prebuilt artifacts to automate tasks that can be executed without architectural expertise.



Communication plan with predefined messages and communication objectives for each expert SME interaction



Security requirements, design patterns, and test scenarios for common use cases



Benefits of Operationalized Architecture

-80%

Reduced ramp up time for new resources (12 weeks to 2)

30-40%

Improved delivery time

\$500k

Lowered costs

60%

Increased time to market

(1.5 months > 2 Weeks)

Lessons Learned

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Hire highly skilledexperienced professionalsto make decisions

2 Combine repeatable process and security experts—not technology experts

Use work artifact templates (SOW, requirements, design, etc.) not just for final deliverables

Develop communications plan





Summary

To meet the challenges of profound business and technology transformations, security services must be run like a business. We illustrated the benefits of applying product development, marketing and operations concepts:

Scalable delivery with increased responsiveness and consistent quality

Higher satisfaction and engagement through customer focus

Relevant options to meet every internal need

Rapid investment reprioritization and strategic agility



Takeaways and Next Steps

Prepare your organization to embrace demand variability through standardization and repeatable processes

Incorporate sales and marketing techniques to better manage demand and resources

Use metrics and customer feedback mechanisms to continuously improve your engagement model and process artifacts

Establish an appropriate engagement and pricing model



Questions?

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