

Adapting Your Test Security Program for New Products and Modes of Delivery

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“What’s certain is that the world is changing faster than at any time in human history.”

Philip Stephens

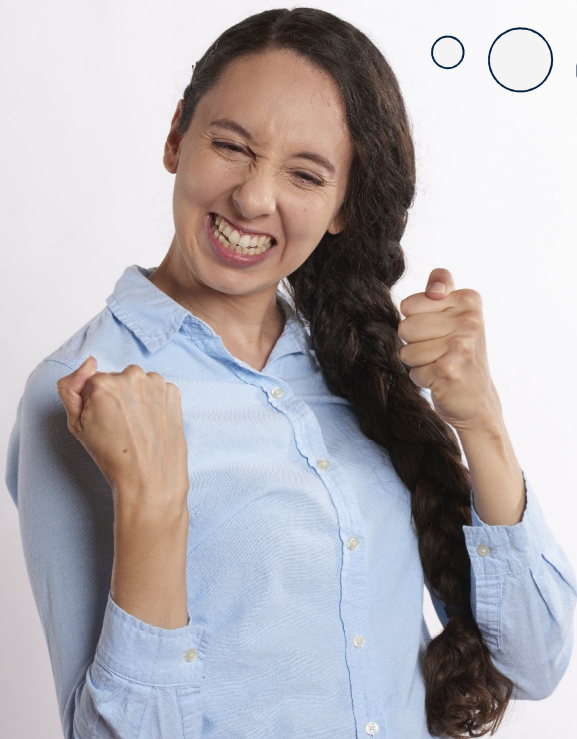
We proudly present....

ACT[®]

The Inner Thoughts of a Test Security Professional



Looks like the business is making some changes to our testing program and they want to get Test Security's input.



*Yes!!! They remembered
that test security is
important to the
discussion!*

On meeting day...

ACT[®]



*I'm so glad we're having
this discussion before
changes are
implemented.*



I'm all ears. Let's see what they're considering.



Wow – these are some big changes with test security implications.

Just keep smiling...



*They want to
do what?*



*Just a
minute...*



*All the improvements
we've made over the
years...*



*...and none of it
matters
anymore!!*





*This is the first time
I've heard about
this...*



*...and they want
my input by
when???*



*These changes
impact everything.
Where do I even
begin?*

“Those who expect moments of change to be comfortable and free of conflict have not learned their history.”

Joan Wallach Scott

Managing changes that impact test security

1. Understand the change(s) and impacts to processes
2. Analyze the risks
3. Prioritize mitigation strategies
4. Develop plan/strategy
5. Implement plan/strategy
6. Reevaluate periodically

Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Understand the Change

1. What is the change?
2. Who decided to implement the change?
3. Why is it being implemented?
4. How long will it be in effect?
5. How much of your testing will it impact?
6. How will it work?
7. How does it impact existing processes?



Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

How Will it Work?

Moving from paper to CBT

- Data flow
- Lockdown / secure browser
- Device security
- Network security
- Changes to test center model

Understand

Analyze

Prioritize

Develop

Implement

Reevaluate

How Will It Impact Existing Processes?

Moving from domestic to international markets

- Score reviews
 - Communication method
 - Retest process
 - Arbitration

Understand
Analyze
Prioritize
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Reevaluate

Analyze the Risks

Does the change:

1. Create/increase test security risks?
2. Eliminate/reduce test security risks?
3. Impact established mitigation strategies?



Understand
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Analyze the Risks

Moving from paper to CBT

- Eliminate/reduce:
 - Harder to copy by looking at answer sheet
 - Real-time delivery reduces threat of pre-exposure
- Create/increase:
 - Item theft through hacking
 - Circumventing the secure browser
 - Device/network security
 - Bribery or surrogate attempts

Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Analyze the Risks

Moving from linear to CAT

- Reduced copiers
- Increased impact of hacking

Moving from admissions to K-12 accountability

- Reduced threat of examinee misconduct
- Increased threat of administrator misconduct

Analyze the Risks

Is the risk really new?

Understand
Analyze
Prioritize
Develop
Implement
Reevaluate



Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Analyze the Risks

Impacting established mitigation strategies

- Linear to CAT
 - Abandon similarity statistics
 - Review item performance and latency
 - Step up surrogate detection
- College admission to K-12 accountability
 - Abandon individual irregularity analytics
 - Develop aggregate irregularity analytics

Analyze the Risks

LIKELIHOOD

Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Analyze the Risks

LIKELIHOOD X IMPACT

Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Analyze the Risks

LIKELIHOOD X IMPACT = RISK

Understand
Analyze
Prioritize
Develop
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Analyze the Risks

1. Pre-exposure of paper form
2. Individual item harvesting
3. Hacking into a CAT item bank
4. Surrogate ring
5. Copying in a PBT test
6. Copying in a CAT test

Understand
Analyze
Prioritize
Develop
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Reevaluate

Prioritize Mitigation Strategies

1. Focus on the biggest risks first
2. Prioritize mitigation strategies:
 - Biggest impact
 - Low hanging fruit
3. Create a calendar that includes:
 - Mitigation strategies
 - Process changes



Understand
Analyze
Prioritize
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Prioritize Mitigation Strategies

1. Rules/procedures & Terms and Conditions
2. Hotline / inquiry portal
3. Web monitoring
4. Data analyses
5. Investigations
6. Photo collection
7. Technical requirements for CBT

Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Develop the Plan/Strategy

1. Obtain buy-in
2. Create a schedule
3. Manage the schedule to completion



Understand
Analyze
Prioritize
Develop
Implement
Reevaluate

Implement the strategies

1. Communicate
2. Implement
3. Monitor the results



Understand
Analyze
Prioritize
Develop
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Reevaluate periodically

1. Is the mitigation strategy still working?
2. Are there new risks?
3. Are there bigger risks?
4. Are there new changes coming?



“The secret of change is to focus all of your energy, not on fighting the old, but on building the new.”

Socrates

Questions?

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