Mature your TPRM Program with NormShield's FAIR-based Financial Impact Assessment

NORMSHIELD



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3D Vendor Risk @ Scale (SM) with FAIR

Having the capacity to use a FAIR assessment at scale for third-party risk management (TPRM) will elevate your risk management program and help you communicate the probable financial impact of potential cyber incidents in business terms. This tool will help attain the goal of cost effectively achieving and maintaining an acceptable level of loss exposure, while also clearly conveying the breadth of risks factors across the organization.

First, let's talk about what FAIR is and why you should care about using it in assessing third-party risk.

What is FAIR?

Factor Analysis of Information Risk (FAIR) is the only international standard quantitative model for information security and operational risk.¹ The model:

• Provides a model for understanding, analyzing and quantifying information risk

in financial terms.

- Is unlike risk assessment frameworks that focus output on qualitative color charts or numerical weighted scales.
- Builds a foundation for developing a robust approach to information risk management.

FAIR model components are specifically designed to support risk quantification, through.²

- A standard taxonomy and ontology for information and operational risk.
- A framework for establishing data collection criteria
- Measurement scales for risk factors.
- A modeling construct for analyzing complex risk scenarios.

 ¹ FAIR Institute. 2019. <u>Https://www.fairinstitute.org/;</u> What is FAIR? From a Compliance-based to a Risk-based Approach to Information Security and Operational Risk <u>https://www.fairinstitute.org/what-is-fair</u>
 2 FAIR Institute. 2019. <u>https://www.fairinstitute.org/what-is-fair</u>; What is FAIR? From a Compliance-based to a Risk-based Approach to Information Security and Operational Risk <u>https://www.fairinstitute.org/what-is-fair</u>;

FAIR model analysis complements existing risk management frameworks by building on qualitative efforts in order to better quantify risk.³ Shortcomings in risk management frameworks include:

- Organizations such as NIST, ISO, OCTAVE, ISACA, etc. are useful for defining and assessing risk management programs, but go no further than those parameters.
- Most frameworks prescribe the need to quantify risk, but for the most part, they leave it up to the practitioners to figure that process out.
- Some are silent on the subject of how to compute risk, while others are open in the allowance of third-party methods.
- Frameworks such as NIST 800-30 attempt to measure risk, but fall short as they rely on qualitative (not quantitative) scales and flawed definitions.

FAIR helps fill the gaps in other risk management frameworks by

providing a proven and standard risk quantification methodology that can be leveraged on other frameworks.



3 What is FAIR? From a Compliance-based to a Risk-based Approach to Information Security and Operational Risk <u>https://www.fairinstitute.org/what-is-fair</u>

How NormShield integrates and scales FAIR to calculate third-party risks



From a high level, technical data is used to feed FAIR calculations to achieve a databased score. This technical score alone gives you an overall cyber-hygiene grade and is part of a greater risk assessment. But just because a company is assigned a certain grade does not necessarily mean that there is a high risk posed to your organization. A score alone lacks context related to business impact.

Through 3D Vendor Risk@Scale (SM) with FAIR a more useful probability can be calculated of the financial impact a vendor might make by using technical data, not just

the score, in conjunction with other peerrelated data. Such data can be garnered from research as the annual IBM/Ponemon study, Verizon Data Breach report, Normshield's ongoing monitoring of publicly announced breaches.

For example, a probability is calculated of the financial impact in the event that a vendor were to have a cyber incident occur in the next twelve months. The probability is below your risk appetite yet the technical score is a C-. Based on risk appetite, your business may decide that doing a deeper dive or committing more resources to requiring the vendor to improve their grade may not make good business sense. In another example, you might have a vendor with a B+ grade, yet that vendor shows a high probable financial impact. To further and more effectively limit risk and financial loss, you may want to conduct a deeper assessment, prioritize continuous monitoring, alerting on variance, etc. as part of ongoing third-party due diligence for this B+ vendor.

Steps to integrate NormShield's FAIR analysis into your third-party risk program

Step 1: Find a FAIR evangelist on your team. Not everyone in the TRPM program will need to be fluent in FAIR, but having one member who has taken the time to learn, train, and understand FAIR's use and value will help the rest of the team as they learn the platform and the program. This person needs to be an adept critical thinker.

Step 2: Find FAIR support in other parts of the organization. Many organizations today are embracing FAIR in Enterprise Risk Management and the larger cyber security world. Identifying those folks inside your organization and sharing your roadmap for integrating FAIR into your organization's TPRM will gain you broad support at all levels of management. If no one has yet embraced FAIR in your company, then your FAIR evangelist should prepare briefings about what it is, how it will be used in TPRM, and the value 3D Vendor Risk@Scale (SM) with FAIR will bring to the company.

Step 3: Develop a clear, specific value prop for the program. Look for the initial

project to prove FAIR using some key characteristics – meaningful results achieved quickly that are easily visible to executive decision-makers.⁴



4 copeland, J.G. Expert Tips on Adopting FAIR from Our Breakfast Meeting at Gartner Gartner Security & Risk Management Summit. June 8, 2018. <u>https://www.fairinstitute.org/blog/expert-tips-on-adopting-fair-from-our-breakfast-meeting-at-gartner</u>

Step 4: Training

The FAIR evangelist should read and be familiar with the following books, blogs and other information

- Books: Measuring and Managing Information Risk: A FAIR Approach; How to Measure Anything in Cybersecurity Risk Hubbard, Seiersen
- OpenFAIR Certification
- Blogs: https://www.fairinstitute.org/blog; https://www.risklens.com/blog/

The challenge of biases including changing reliance on heatmaps and qualitative risk assessments may also need to be faced. Cybersecurity experts have been using heatmaps for quite some time and may be invested in their use, even though they are of little value in communicating actual risk, primarily due to their subjective or qualitative nature. Become familiar with the shortcomings of heatmaps. The following provides a good starting point:

• How to Measure Anything in Cybersecurity Risk by Geer, D.E., and McClure,

S., Wiley Press.;

https://www.fairinstitute.org/blog/13-reasons-why-heat-maps-must-die; https://blog.protiviti.com/2019/02/21/cyber-risk-assessment-moving-pastthe-heat-map-trap/



Establish the basics

Step 1: Determine what vendors are in scope for monitoring. If you don't have a basic understanding of what vendors should be in scope for your TPRM monitoring program, then you can follow a simple tiering system model: if a vendor will receive or have access to sensitive data, will have persistent access to your network, or are critical/material to your company then they are in scope for monitoring.

When you have a list of vendors that meet that criteria, you can simply add the primary domain (URL) of that vendor into the NormShield platform and begin monitoring.

Step 2: Use NormShield's ecosystem capability to create a bucket for each class of vendor (access to sensitive data, etc.). If you already have a tiering system in place, simply create ecosystems around your model. Now you can begin to take action on the information that is presented. When just getting started with the program, you can use a technical score as your first red-flag. Start with the lowest technically ranked vendor, then review the FAIR impact of that vendor. If the impact is near or close to your company risk tolerance, then that vendor is a candidate for action.

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Step 3: Flag vendors for action. There are several avenues to take once you flag a vendor for action. The first is to review the FAIR Factors (Controls). Review the list of control items. If you have knowledge of any that are in use at the vendor, adjust the FAIR analysis controls accordingly.

Also, review the number of records that the vendor has access to and update the controls list if you have that data. Additionally, if the vendor has (or will have) access to your network, check that box on the screen that shows they are accessing data on your network. After fine-tuning these adjustments, if the financial impact is still near or above appetite, then it is time to address controls with that vendor.



Step 4: Use the reporting features to filter for the highest risk issues and address those first with the vendor. As you work with the vendor you may discover false positives. Identify and mark false positives, and then recalculate the score and check the change in probable financial impact.



Maturing a TPRM program to improving due diligence and action plans



As you continue to build the program, incremental optimization can be achieved on vendors that have been categorized as critical, material, and those that have

shown the probability of a high dollar impact from the FAIR report. There are several ways that this can be done.

First, you will want to conduct an inventory of what you know about the selected vendor. Procurement or the business unit may have additional details or artifacts around compliance that have been previously collected. If a questionnaire such as the SIG (Standardized Information Gathering) has already been collected, you can upload those details into the platform via the Compliance Report, Upload Compliance File. If you have an artifact such as a PCI-DSS ROC, you can go to the Compliance Reporting section, select the specific tab for the framework, then review the results column. You can add or adjust information based on the report. *Be sure to recalculate when finished with these additions.*

If you have more accurate details from the business unit about the vendor engagement, you can make those changes in the FAIR report, either through specific numeric data or other factors such as:

Data Breach Factor Relations



When the new information is added to the assessment, review the three dimensions of risk (technical grade, compliance percentage, and probable financial impact numbers) to determine if direct follow-up action would be required.

Follow-up may include:

- Work with the business unit to reduce the need to share data.
- Work with the vendor to improve their security hygiene and/or compliance posture.
- Work with your technical team to isolate vendor access to the network.
- Other refinements, as appropriate to your unique setting and relationships.
- Schedule continuous or periodic monitoring based on these results.

Full maturity and optimization

One of the keys of moving your program to full maturity is understanding the relationship between assessments and risk appetite. Many organizations base their risk tolerance on a qualitative measure of low, medium, or high. The use of the NormShield platform will give you the tools to elevate the third-party risk conversation to a more advanced level. The first step is to know what your organization's risk appetite is when it comes to third parties. We won't cover the specifics of how to do that here, but refer you to a great blog to get started: https://www.fairinstitute.org/blog/define-your-companys-appetite-for-risk-with-fair-analysis

When you understand what your company risk appetite and tolerance is, then you can compare that to the FAIR probability of financial loss for a vendor.

- If the FAIR impact amount is at or below your appetite, then a vendor can be scheduled for fewer recurring monitoring and assessments.
- If the FAIR impact amount is above your appetite, but within risk tolerance levels, a deeper dive into the assessment process for that vendor would be warranted to improve accuracy. If it is beyond appetite but still within your company's risk tolerance, than a more frequent monitoring assessment schedule is suggested.
- If the FAIR impact amount is beyond your risk tolerance, then a deeper dive into the assessment process is warranted to improve the accuracy of the analysis. If it is beyond tolerance, then a plan of action should be identified for corrective action that the vendor could take to improve their risk posture. The time it takes for vendors to close any deficiencies that are identified is a good source of data for a key risk indicator (KRI), both for the vendor and your TPRM program.



A well-documented and justified program meets regulator questions. It's no longer a matter of High/Medium/Low heat-maps. You can now create a process document that includes all of the analysis, review, and steps outlined above and reflects your more mature level of corporate customization. When your analysis is tied to the pre-established corporate risk picture, regulators will understand your program is mature. Developing meaningful KRIs and key performance indicators (KPIs) is an essential part of building mature processes. Meaningful measurements enable effective comparisons, which in turn enable wellinformed decisions. Measurement of variance relative to expected norms (such as variance from risk appetite) is the most effective method of obtaining good KRIs and KPIs.

PLANNING									
Risk Alignment	Identify Specific Risk Areas								
 Review Risk Appetite & Risk Tolerances: Simple, clear and consistent metrics Applied at business level Review Supplier Control Requirements: Security, information, personnel, site, business continuity, regulatory, etc. Leverage industry standards Determine CM Applicability : For initial reviews, include scope in contract negotiations for onboarding 	Operational Operation risk Financial viability Information security Physical security Business resiliency/disaste Geopolitical	ments Techniques to be Leveraged: Ethical Sourcing Regulatory Sanction checks Privacy Behavioral Analytics er recovery Identity and Access Management 							



Incorporating Continuous Monitoring in TPRM Programs⁵

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⁵ Innovations in Third Party Continuous Monitoring: With a Name Like OODA, How Hard Can It Be? The Santa Fe Group, Shared Assessments Program. 2018.https://sharedassessments.org/tp-continuous-monitoring/

NormShield is the only company taking a multidimensional approach to risk rating and assessment. It is not enough to simply score risk based on qualitative factors or to make business decisions on grade ratings alone. Risk assessments must be able to convey information in relatable terms to all stakeholders, and result in quantifiable, tangible business outcomes. This is the key to TPRM program success.

NormShield's vision is to give a complete risk picture of a vendor by providing NormShield Cyber Risk Scorecards **(technical assessment and monitoring)**,FAIR results **(the probable financial impact of a breach caused by a supplier)**, and Shared Assessments' SIG Questionnaire **(assessing that suppliers have appropriate policies and processes in place)**.





Standards

Correlate findings to industry standards and best practices. Measure any third party's compliance with regulations like NIST 800-53, ISO27001, PCI-DSS, HIPAA, GDPR, and Shared Assessments.

Technical Score

Perform non-intrusive cyber risk assessments of any third party. Get scorecards with easy-tounderstand letter grades and drill down into technical details in each risk category.



Financial Impact

Use the FAIR model to calculate the probable financial impact if a cyber event were to occur at a third party in order to cost-effectively achieve and maintain an acceptable level of loss exposure.

Request a free fair report

Fair webinar

LET'S GET IN TOUCH





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