



# Problem: SMEs Struggle

Small and medium-sized enterprises (SMEs weak link in supply chain cybersecurity. De global supply chain, SMEs and their struggl and improve their defenses is understudied

Reason 1: As large companies shore up cybe become more attractive targets for attacker **Reason 2:** Major frameworks to reduce risk not designed for SMEs **Reason 3:** SMEs are understudied in acaden

# What Cybersecurity Challenges **Participating in Third Party**

A qualitative approach was used to con challenges SMEs encounter when partie assessments. Results discuss how and v offers insights on how to improve third moving forward.

### How We Did It: Semi-Stru

Semi-structured interviews with SME se managers, legal and compliance experts Data analyzed using two-cycle coding

### **Actionable Insights for Re**

- Align processes to standards
- Determine efficacy of new tools and pro
- Utilize existing resources offered by orga processes
- Cybersecurity risk is business risk

with Cybersecurity	Shortcomings of Traditional Risk Assessment Methods When Applied to SMEs		
Es) have long been known to be a Despite their crucial role in the gle to increase cyber resiliency ed in academic literature.	Types of Assessment Tools	Strengths	Weaknesses
	Questionnaires and Surveys	<ul> <li>Cheap</li> <li>Easy to administer</li> </ul>	<ul> <li>Based on self- report/self-attestation</li> </ul>
bersecurity defenses, SMEs ers to breach systems sk and improve cybersecurity are	(e.g., based on ISO 27000+)	<ul> <li>Widely used and accepted throughout the industry</li> </ul>	<ul> <li>Long, time consuming (1000+ questions), and low response rates</li> <li>Only as good as</li> </ul>
emia, industry, and government			<ul> <li>respondent is honest</li> <li>Often too vague to be</li> </ul>
do SMEs Encounter when y Risk Assessments?	Audits and Certifications (e.g., System and Organization Controls (SOC) 2 reports)	<ul> <li>Establishes standards to benchmark security against</li> <li>Provides documentation</li> <li>Signals leadership has begun to think about/invest in security</li> </ul>	day the organization was audited or certified
onduct an empirical study of the ticipating in third party risk why traditional methods fail and d party risk assessments of SMEs			
uctured Interviews			<ul> <li>Criticized as "Pay to play" system</li> </ul>
security specialists, supply chain rts, business leadership	Security Rating Services (e.g., BitSight, SecurityScorecard,	• Offers an "objective" (i.e., not a self- assessment) rating of an	<ul> <li>Only depicts one aspect of an organization's security</li> </ul>
ealigning Processes	RiskRecon, etc.)	organization's security	<ul> <li>Criticized as "Pay to play" system</li> </ul>
rocesses ganizations to streamline	<b>Direct Testing</b> (e.g., penetration testing and red team assessments)	<ul> <li>One of the most reliable ways of assessing 3<sup>rd</sup> party security</li> </ul>	<ul> <li>Cost</li> <li>Time consuming</li> <li>Liability</li> <li>Permissions</li> </ul>



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