#	Question Text	Response Text	References
1	Describe your organization and its interest in the Framework.	Rapid7 is a leading provider of security data and analytics solutions that enable organizations to implement an active, analytics-driven approach to cyber security. We combine our extensive experience in security data and analytics and deep insight into attacker behaviors and techniques to make sense of the wealth of data available to organizations about their IT environments and users. Our solutions empower organizations to prevent attacks by providing visibility into vulnerabilities and to rapidly detect compromises, respond to breaches, and correct the underlying causes of attacks. Rapid7 is trusted by more than 5,100 organizations across 99 countries, including 37% of the Fortune 1000. We work with organizations to help them implement and maintain security programs aligned with the Framework, and we also use the Framework internally ourselves.	
2	Indicate whether you are responding as a Framework user/non-user, subject matter expert, or whether you represent multiple organizations that are or are not using the Framework.	We are responding as both a Framework user, and a security program subject matter expert. Our services teams help organizations both build programs that conform to the Framework, and assess their maturity against it. We also use the Framework internally to inform our own security program. Finally, we offer a number of software, cloud, or services solutions that satisfy many of the requirements outlined in the Framework, including in the Identify, Detect, Respond, and Recover functions.	
3	If your organization uses the Framework, how do you use it? (e.g., internal management and communications, vendor management, C-suite communication).	We believe the Framework sets out a logical and pragmatic approach to building a cybersecurity program, and it very much aligns with how we see security and the approaches we recommend to others and for ourselves. So we use it internally to communicate that vision to stakeholders, and enable us to make key decisions when necessary.	
4	What has been your organization's experience utilizing specific portions of the Framework (e.g., Core, Profile, Implementation Tiers, Privacy Methodology)?	We use the Framework Core to make sure controls we are implementing for FedRAMP are well aligned with other frameworks and happen in logical progression. This creates a significant reduction in work, allowing us to get things in place in one manner and quickly tie that work back to broader certification efforts. It would be helpful to make sure that all US regulatory obligations are also highlighted in the Core. For example, if a Framework adopter decides to enter the healthcare market, they should be able to rely on the Core to link controls back to components of the HIPAA Security and Privacy rules. As we are proceeding towards FedRAMP, we are using a 'Profile-like' approach. We recommend adding one additional "Profile" to the current method that would allow framework-adopters to have an additional dimension to their story-telling. Our current approach to FedRAMP includes the following Profile's: Current, Minimum, Ideal. This distinction allows us to highlight what we MUST accomplish, versus where we would like to.	
5	What portions of the Framework are most useful?	Core offers the most tactical support and the profile approach helps highlight gaps, but lacks depth by only allowing two dimensions.	

#	Question Text	Response Text	References
6	What portions of the Framework are least useful?	Implementation Tiers are a novel approach and work in the right direction, but can delay tangible risk reduction given how broad they are. We would recommend looking at how BSIMM approaches maturity modeling for Application Security and see if a similar construct could be developed across the Core Functions. The Framework also indicates that establishing a cybersecurity program occurs in a relatively linear function, while this would be ideal, depending on the organization, this approach could inherently delay core controls that we already know are paramount to securing environments.	
7	Has your organization's use of the Framework been limited in any way? If so, what is limiting your use of the Framework (e.g., sector circumstance, organizational factors, Framework features, lack of awareness)?	As a high-growth technology company, our initial focus was immediate tactical risk reduction through the implementation of technical controls. The Framework could benefit from some adjustments that allow it to be immediately practical in organizations of all sizes and maturity levels. Ultimately, two of the single most important controls remain unaddressed in the Framework. NIST should consider asserting itself with a slightly more prescriptive approach to two-factor authentication and patching. We know that fully patched environments and two-factor authentication implementation dramatically reduce the risk of compromise.	
8	To what extent do you believe the Framework has helped reduce your cybersecurity risk? Please cite the metrics you use to track such reductions, if any.	The Framework hasn't added any immediate security risk reduction for our organization, but it has simplified some initiatives we are working on and has saved us some time.	
9	What steps should be taken to "prevent duplication of regulatory processes and prevent conflict with or superseding of regulatory requirements, mandatory standards, and related processes" as required by the Cybersecurity Enhancement Act of 2014?	n/a	

#	Question Text	Response Text	References
10	Should the Framework be updated? Why or why not?	Rapid7 believes the Framework should be updated.	
		In the time since the Framework was released, it has seen impressive	
		adoption and gained a reputation of credibility. It has a solid foundation on	
		which to build, and can be even more impactful as a means of tackling the	
		cybersecurity challenges that face all modern businesses and by extension,	
		national security, the economy, and consumers. In order to increase its	
		effectiveness, it must stay current as technology needs and possibilities	
		evolve, and as the cybersecurity landscape and attacker methodologies	
		change. This will help drive even broader adoption, and also ensure	
		Framework	
		Flamework.	
		In the two years since the Framework was published, we've seen a number	
		of developments both in the threat landscape, and in the security industry.	
		For example, the Sony breach highlighted an attack type that had not	
		previously been a huge focus for most organizations - a breach designed	
		purely to cause major disruption and harm to the business. Similarly, we've	
		seen ransomware emerge as a more virulent threat than previously, and at	
		the same time, it's become apparent that point of sale systems are a huge	
		target for financially-motivated attackers. The prevalence of successful user-	
		based attacks has driven the emergence of a new class of cybersecurity	
		solution: user behavior analytics. We're seeing organizations start to	
		leverage the data in their environments to make more informed security	
		decisions; and we're seeing emerging solutions classes such as deception-	
		based security.	

#	Question Text	Response Text	References
11	What portions of the Framework (if any) should be changed. or removed? What	We have not identified any sections that should be removed.	For vulnerability
	elements (if any) should be added to the Framework? Please be as specific as		disclosure and
	erements (if any) should be added to the Francwork. Freuse be as specific as	In terms of changing current elements, we recommend shifting away from	handling: ISO/IEC
	possible.	the emphasis on critical infrastructure. We understand the EO that initially	30111:2013 and
		mandated the creation of the Framework was focused on the Critical	ISO/IEC 29147:2014
		Infrastructure sectors specifically, but adoption of the Framework over the	
		past two years has gone well beyond that, and it has proven to be relevant	
		more broadly. It's hard to nail down a meaningful definition of critical	
		infrastructure and draw stark lines around those industries in any case, and	
		even if we could, it is not only those industries that are affected by	
		cybersecurity threats and challenges - all are, and with very real negative	
		implications for the economy and consumer well-being.	
		We would also like to suggest some additions for the Framework, detailed	
		below. These suggestions are additional to the recommendations made in	
		the Roadmap published by NIST in Feb 2014, as we comment on those in	
		response to question 14 below.	
		* User behavior analytics. Since the initial development of the Framework, it	
		has become increasingly well-established that malicious use of	
		compromised credentials is a factor in the vast majority of compromises,	
		and users make for easy targets for attackers. As a result, user behavior	
		analytics has emerged as a quickly growing class of security solution. Some	
		of the subcategories in the "Detect" function point at pieces of UBA	
		functionality (DE.AE-1,2,5 and DE.CM1,3,6,7); however, there is little in the	
		way of standard established testing or benchmarks for organizations looking	
		to deploy these technologies. This is an area where NIST could add more	
		informative references. It could also revisit these areas with a closer focus	
		on detecting the malicious use of compromised credentials and lateral	
		movement on the network specifically.	
		* Vulnerability disclosure and handling. Due to its complexity, all technology	
12	Are there additions, updates or changes to the Framework's references to	As proposed for questions 11, 13, 14.	
	cybersecurity standards, guidelines, and practices that should be considered for		
	the update to the Framework?		
13	Are there approaches undertaken by organizations – including those	In October 2015, the FS-ISAC issued guidance on "control types to	https://www.fsisac.com/
	documented in sector-wide implementation guides – that could help other	incorporate with vendor governance programs in order to improve	sites/default/files/news/
	soctors or organizations if they were incorporated into the Framework?	information protection capabilities when using third party services and	Appropriate%20Softwar
	sectors of organizations if they were incorporated into the realinework?	products in the supply chain for financial institutions' customers and	e%20Security%20Contr
		employees." This report was created with a view that modern organizations	ol%20Types%20for%20
		are increasingly reliant on third party software, and this may represent	Third%20Party%20Serv
		significant risk, so it is important to consider this in the procurement process	ice%20and%20Product
		for any technology. This principle is true for all sectors, not only the financial	%20Providers.pdf
		services sector.	

#	Question Text	Response Text	References
14	Should developments made in the nine areas identified by NIST in its	Rapid7 believes a number of significant developments have been made in	
	Framework-related "Roadmap" be used to inform any updates to the	the areas identified by the Roadmap, and that as a result, there are several	
	Framework? If so how?	valuable updates that should be made to the Framework:	
	Tuniework. If 50, now.	* 4 4 Audio anti-ation	
		"4.1 Authentication	
		As the Roadmap hotes, compromised credentials frequently play a role in	
		successful cyberallacks. Deploying multi-factor authentication is a	
		Readmap was written, options for MEA have improved greatly. So too has	
		adoption, but there is still a long way to go and Rapid7 believes NIST can	
		play a valuable role in encouraging technology operators to offer or enforce	
		the use of MFA.	
		*4.2 Automated Indicator Sharing.	
		In December 2015, Congress passed the Cybersecurity Act, which focused	
		on improving cybersecurity information sharing. Many organizations want to	
		participate in this, and those in the critical infrastructure sphere are	
		particularly encouraged to do so by the Government. There has traditionally	
		been a few barriers to adoption of this; concerns over legal ramifications was	
		one, and was addressed in the Cybersecurity Act. Others have been the	
		need for skilled labor and the delay in sharing timely information. Automating	
		this process can address both challenges - reducing the burden on	
		resources and improving the speed and efficiency of the process. NIST can	
		help establish best practices and encourage productive automated indicator	
		i) facilitating alignment amongst the private sector and the numerous	
		Government agencies that are looking at or participating in information	
		sharing	
		ii) better defining types of threat intelligence and how they can help	
		organizations inform prevention/detection/response decisions.	
		iii) defining better guidance on tagging and classifying sources of threat	
		intelligence (e.g.: tell me what threat the intelligence is meant to find, when it	
15	What is the best way to update the Framework while minimizing disruption for	n/a	
	those currently using the Framework?		
16	Has information that has been shared by NIST or others affected your use the	n/a	
10	Framework? If so, please describe briefly what these resources are and what the		
	IT allework? It so, please describe bilenty what those resources are and what the		
	effect has been on your use of the Framework. What resources, if any, have been		
	most useful?		
17	What, if anything, is inhibiting the sharing of best practices?	Anecdotally it often seems that awareness is the biggest challenge in driving	
4.5		adoption of best practices.	
18	What steps could the U.S. government take to increase sharing of best practices?	Drive increased awareness and understanding of the challenges and	
		potential solutions, including benefits and relatively straigntforward	
		recommendations for overcoming challenges.	

#	Question Text	Response Text	References
19	What kind of program would help increase the likelihood that organizations	n/a	
	would share information about their experiences, or the depth and breadth of		
	information sharing (e.g., peer-recognition, trade association, consortia, federal		
	agency)?		
20	What should be the private sector's involvement in the future governance of the	n/a	
	Framework?		
21	Should NIST consider transitioning some or even all of the Framework's	n/a	
	coordination to another organization?		
22	If so, what might be transitioned (e.g., all, Core, Profile, Implementation Tiers,	n/a	
	Informative References, methodologies)?		
23	If so, to what kind of organization (e.g., not-for-profit, for-profit; U.S.	n/a	
	organization, multinational organization) could it be transitioned, and could it		
	be self-sustaining?		
24	How might any potential transition affect those currently using the Framework?	n/a	
	In the event of a transition, what steps might be taken to minimize or prevent		
	disruption for those currently using the Framework?		
25	What factors should be used to evaluate whether the transition partner (or	n/a	
	partners) has the capacity to work closely and effectively with domestic and		
	international organizations and governments, in light of the importance of		
	aligning cybersecurity standards, guidelines, and practices within the United		
	States and globally?		