Organizational Information	Response
Organization Name	The Open Group - The Open Group Trusted Technology Forum (OTTF) and The Open Group Security Forum.
Owner to a Constant	Standards and Certification Development Organization - Member driven consensus based standards for IT
Organization Sector	The Ones Crause Claff 70 Member Organizations 500 Member
	The Open Group: Staff 70, Member Organizations 500, Member Participants 40,000
Organization Size	
	The Open Group: http://opengroup.org The OTTF:
Organization Website	http://opengroup.org/subjectareas/trusted-technology
Organization Background	The Open Group is a vendor and technology-neutral consortium, operating as "not-for-profit", with over 27 years of experience, formed through the merger of X/Open Company Limited and the Open Software Foundation. It has offices in San Francisco (USA), Boston (USA), Reading (UK), Tokyo (Japan), Johannesburg (SA), Paris (France), and Shenzhen (China). It has over 500 member organizations, with over 40,000 participants in The Open Group activities from over 95 countries. The Open Group Trusted Technology Forum is a forum of The Open Group focused on product integrity and supply chain security standards and certification programs for COTS ICT providers - to mitigate the risk of tainted and counterfeit components and products. The Open Group Security Forum develops standards and best practices in information security management, security architecture, and risk management.
Point of Contact Information	Response
POC Name	Sally Long
POC E-mail	s.long@opengroup.org
POC Phone	978-835-2671

#	Question Text		References
	Describe your organization and its interest in the Framework.	The Open Group is a vendor and technology-neutral consortium, operating as "not-for-profit", with over 27 years of experience, formed through the merger of X/Open Company Limited and the Open Software Foundation. It has offices in San Francisco (USA), Boston (USA), Reading (UK), Tokyo (Japan), Johannesburg (SA), Paris (France), and Shenzhen (China). It has over 500 member organizations, with over 40,000 participants in The Open Group activities from over 95 countries. The Open Group Trusted Technology Forum is a forum of The Open Group focused on product integrity and supply chain security standards and certification programs for COTS ICT providers - to mitigate the risk of tainted and counterfeit components and products. The Open Group Security Forum develops standards and best practices in information security management, security architecture, and risk management.	For more information on The Open Group, visit the home page: http://opengroup.org
	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. If your organization uses the Framework, how do you use it? (e.g., internal management and communications, vendor management, C-suite communication).	The Open Group Trusted Technology Forum and The Open Group Security Forum could be classified as a subject matter expert. They are comprised of multiple organizations (from government, industry, and 3rd party evaluators), some of which are using and some of which are not using the Framework, but all of which are involved with cybersecurity and supply chain security in their organizations. This RFI response from The Open Group does not represent a consensus view from the member organizations' individual or collective official opinions. N/A - The Open Group in its role as a technology-neutral consortium (See #1 and #2) does not use the Framework, though some of our members may. The Forum focuses instead on cybersecurity and supply chain standards and best practices for ICT providers.	For more inforation on The Open Group Technology Forum, please visit the Forum website at: http://opengroup.org/subjectareas/trusted-technology
	What has been your organization's experience utilizing specific portions of the Framework (e.g., Core, Profile, Implementation Tiers, Privacy Methodology)? What portions of the Framework are most useful?	SEE #3 SEE #3	

#	Question Text	Response Text	References
	Has your organization's use of the	SEE #3	
	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)?		
	To what extent do you believe the	SEE #3	
	Framework has helped reduce		
	your cybersecurity risk? Please		
	cite the metrics you use to track		
	such reductions, if any.		
	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?	The standards referenced by the Framework should not be called out by law or policy as mandatory. However acquisition guidance related to a recommended list of open standards/best practices could be helpful to acquirers and providers alike; to acquirers so they understand better what they could be asking of their providers/suppliers and to providers to understand better what standards/best practices they should be following in terms of product integrity, and cyber and supply chain security. In order to provide that acquisition guidance and make such recommendations it is important to understand which standards apply to various areas; for example, which standards/best practices apply to: technical protocols, to operational processes or to product integrity and supply chain security. All are essential. A better approach might be to provide options for existing standards/best practices in the various areas - as acquisition guidance - instead of running the risk of re-inventing what already exists and regulating it.	
	Should the Framework be updated? Why or why not?	nor specifies.	The Open Trusted Technology Provider™ Standard -(O-TTPS) - Mitigating Maliciously Tainted and Counterfeit Products (Technically identical to ISO/IEC 20243:2015) - is freely available from The Open Group Bookstore here: www.opengroup.org/bookstore/catalog/C147

#	Question Text	Response Text	References
	What portions of the Framework (if any) should be changed, or removed? What elements (if any) should be added to the Framework? Please be as specific as possible.	NIST should add coverage for supply chain risk (potentially as an overlay or an appendix to the Framework) - and it should cover the risk of taint and counterfeit parts and products. There are existing standards that should be referenced for supply chain and trusted technology providers (e.g. ISO/IEC 20243:2015, technically equivalent to the Open Trusted Technology Provider Standard (O-TTPS) — Mitigating Maliciously Tainted and Counterfeit Products published by The Open Group). This is a set of best practices for COTS ICT providers that address product integrity and supply chain security throughout a product's life cycle (from design through disposal, both in-house and outsourced) including the supply chain. The standard was developed over 5 years of consensus building in a partnership with some of the most mature vendors in the industry in collaboration with government.	
	What portions of the Framework (if any) should be changed, or removed? What elements (if any) should be added to the Framework? Please be as specific as possible.	In addition, this input represents a standard recommendation from The Open Group Security Forum staff: They have seen widespread adoption by large organizations in critical infrastructure sectors of the Open FAIR standards (O-RT and O-RA) as a methodology with which to measure and quantify cybersecurity risk. The NIST CSF could be enhanced in the core (ID.RA section), implemention tiers, and informative references by adding mention and use of Open FAIR. The O-RT document provides a standard definition and taxonomy for information security risk, as well as information regarding how to use the taxonomy. <please -="" 2="" a="" add="" additional="" allow="" an="" cell="" column="" d.="" does="" excel="" fair="" for="" hyperlinks="" in="" include="" it="" link="" neccesary="" not="" note="" o-rt="" question="" repsonding="" row="" same="" seem="" standard:="" the="" this="" to="" us="" was=""></please>	Open FAIR O-RT https://www2.opengroup.org/ogsys/catalog/C13K
	What portions of the Framework (if any) should be changed, or removed? What elements (if any) should be added to the Framework? Please be as specific as possible.	In addition, this input represents another standard recommendation from The Open Group Security Forum staff. This document is The Open Group Standard for Risk Analysis (O-RA), which provides a set of standards for various aspects of information security risk analysis. It is a companion document to the Risk Taxonomy (O-RT) Standard (C13K). <please -it="" 2="" a="" add="" additional="" allow="" an="" cell="" column="" d.="" does="" excel="" fair="" for="" hyperlinks="" in="" include="" link="" neccesary="" not="" note="" o-ra="" question="" repsonding="" row="" same="" seem="" standard:="" the="" this="" to="" was=""></please>	Open FAIR O-RA: https://www2.opengroup.org/ogsys/catalog/C13G
	Are there additions, updates or changes to the Framework's references to cybersecurity standards, guidelines, and practices that should be considered for the update to the Framework?	Yes, there are additions that should be considered. The Framework should be updated to account for best practices on product integrity and supply chain security. The Framework is written primarily from an operators perspective and does not sufficiently address requirements/recommendations for providers who supply the products to the critical infrastructure operating environment. That is, best practices that ICT providers should be following to mitigate the risk of tainted and counterfeit parts, while the products are being designed, developed, manufactured. References to best practices for product integrity and supply chain security are missing - they should be added.	

#	Question Text	Response Text	References
	Are there approaches undertaken by organizations – including those documented in sector-wide implementation guides – that could help other sectors or organizations if they were incorporated into the Framework?	Yes, in terms of product integrity and supply chain security, please note the approach taken by The Open Group members. The members defined, by consensus, an international standard of best practices: The Open Trusted Technology Standard - Mitigating the Risk of Tainted and Counterfeit Products (O-TTPS), which was submitted to ISO as a PAS submission and was approved by ISO/IEC as ISO/IEC 20243:2015. The standard was developed for use by COTS ICT providers and applies to all constituents in the ICT	The O-TTPS Accreditation Program website, which helps assure conformance of ICT providers to the ISO/IEC 20243:2015/O-TTPS, can be found here: http://opengroup.org/accreditation/o-ttps
	Should developments made in the nine areas identified by NIST in its Framework-related "Roadmap" be used to inform any updates to the Framework? If so, how?	Yes. Supply chain was one of the nine areas identified in the Roadmap and it is important that the Framework be extended to include references to supply chain standards (potentially as an overlay or an appendix to the Framework).	

#	Question Text	Response Text	References
#	What is the best way to update the Framework while minimizing disruption for those currently using the Framework?	For supply chain we suggest a two-pronged approach: 1) First update the NIST Cybersecurity Framework (CSF) with specific references, when there are specific points of interfaces with suppliers, and where existing supply chain standards like ISO/IEC 20243 apply. The Open Group has published an Implementation Guide that demonstrates how the Open Trusted Technology Provider™ Standard (O-TTPS) (recently approved as ISO/IEC 20243:2015) can address the supply chain best practices relevant to the CSF - and identifies those specific interfaces. The Guide also identifies some gaps, in that the CSF is written primarily from an operational perspective; what owners/operators should do within their operations. While that perspective is critically important it also illustrates the basis of the supply chain gap. To further eliminate the risk of tainted and counterfeit component/products from their environments, implementers of the CSF should consider working with providers who are conforming to best practices like those defined in ISO/IEC 20243. ISO/IEC 20243 defines what IT providers should do throughout their product development life cycle - from design through disposal (both in-house development and outsourced development) - before the products or h/w and s/w updates are installed in critical infrastructure operating environments. 2) To address the supply chain gap in the CSF more directly, we also suggest it would be worth adding an appendix, which identifies the standards and in some cases, as with the O-TTPS (ISO/IEC 20243) the certification programs to identify providers that conform to the standards. This appendix could address more directly, what CSF implementers could be asking of or recommending to their providers to help assure their providers are consistently following cyber and supply chain best practices including mitigating the risk of tainted (e.g. malware capable or malware enabled) and counterfeit components.	The Open Group Framework Implementation Guide identifies some supply chain gaps and specific supplier interfaces where SO/IEC 20243 applies. It is also freely available from The Open Group site here: https://www2.opengroup.org/ogsys/catalog/G151
	Has information that has been shared by NIST or others affected your use the Framework? If so, please describe briefly what those resources are and what the effect has been on your use of the Framework. What resources, if any have been most useful?	SEE #3	
	What, if anything, is inhibiting the sharing of best practices?	SEE #3	

#	Question Text	Response Text	References
	What steps could the U.S.	SEE #3	
	government take to increase		
	sharing of best practices? What kind of program would help		
		It is essential that standards, frameworks etc. be evolved through lessons	
	increase the likelihood that	learned once put into practice. This type of program needs to exist as long as the sharing makes a difference in the evolution. It is important that it not just	
	organizations would share	be a talk-shop initiative, it needs to be results oriented or at least tied directly	
	information about their	back to the results organization who evolves the Framework.	
	experiences, or the depth and		
	breadth of information sharing		
	(e.g., peer-recognition, trade		
	association, consortia, federal		
	what should be the private	Private sector is critical for practical input.	
	sector's involvement in the future	n nvale sector is critical for practical input.	
	governance of the Framework?		
-	Should NIST consider	We believe NIST is the appropriate organization to coordinate the Framework.	
	transitioning some or even all of	However, if a transition is deemed appropriate and a strategy for such	
	the Framework's coordination to	progresses, The Open Group would be very interested in being involved in	
1	another organization?	those discussions.	
	If so, what might be transitioned	SEE #21	
	(e.g., all, Core, Profile,		
	Implementation Tiers, Informative		
	References, methodologies)?		
	, ,		
	If so, to what kind of organization	SEE #21	
	(e.g., not-for-profit, for-profit;		
	U.S. organization, multinational		
	organization) could it be		
	transitioned, and could it be self-		
-	sustaining? How might any potential	SEE #21	
	transition affect those currently	ISEC #21	
	using the Framework? In the event		
	of a transition, what steps might		
	be taken to minimize or prevent		
	disruption for those currently		
	using the Framework?		
Ь	using the Framework!		l .

#		Response Text	References
	what factors should be used to	SEE #21	
	evaluate whether the transition		
	partner (or 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?		