Allegro - Worksheet 10 Information As		Information Asset Ri	SK WORKSHEET					
In fo	T Information Asset Internet connection							
r m at io n A ss et R is	re at	Area of Concern	Abuse of weak WiFi au	Abuse of weak WiFi authentication by unauthorized people				
		(1) Actor Who would exploit threat?	it the area of concern or	External threat ac performing wifi a	ctor without advance	d skills		
		(2) Means How would the actor do it? What would they do?		IoT devices have limited resources and rarely support the latest WiFi security standards. They are also an easy target for deauthentication attacks.				
k					bandwidth for perso	-	poses,	
		(4) Outcome What would be the information asset	e resulting effect on the			truction	ruction	
		(5) Security	ormation asset's security network impac		entiality and availability of the ed.			
		(6) Probabili What is the likelih could occur?	ty nood that this threat scenario	☐ High	✓ Medium	(Low	
	What ar		o the organization or the infor breach of security requirement		(8) Severity How severe are these consequences to the organization or asset owner by impact are			
					Impact Area	Val ue	Score	
		•	noticed, he may perform l lead to the network ow	•	Reputation & Confidence	М	8	
		quences.			Financial	L	5	
			etwork performances, a ing to increased costs.	ffecting	Productivity	M	6	
	1	J 2.000			Safety & Health	L	6	
	Confid	lentiality of data	a in the network is no lo	onger ensured.	Fines & Legal Penalties	М	2	
					User Defined Impact Area	L	2	
					Relative Risk	Score	58	

(9) Risk Mitigation Based on the total score for this risk, what action will you take?								
☐ Accept	☐ Defer	✓ Mitigate	☐ Transfer					
For the risks that you	For the risks that you decide to mitigate, perform the following:							
On what container would you apply controls?	What administrative, technical, and physi would still be accepted by the organizatio		container? What residual risk					
Network Access Credentials	Implement strong passwords and a regular password change policy.							
Internet connection	Monitor internet traffic counters	s to detect abnormal traffic.						
Networks	Configure router for network se Guest network. Implement firev	_						
Internet connection	Selectively allow internet conne	ection only to trusted devices						

Allegro - Worksheet 10		orksheet 10	Information Asset Risk Worksheet					
In fo	T hr	Information Asset	Internet Connection	nnection				
r m	ea t	Area of Concern	Execution of remote un	Execution of remote unauthorized activities				
at io n A		(1) Actor Who would explothreat?	it the area of concern or	Individual or o	organized Advanced	Threat Ac	tor	
ss et R		(2) Means How would the actor do it? What would they do?		Exploitation of firmware bugs and vulnerabilities in IoT devices leading to RCE and botnet.				
is k		(3) Motive What is the actor's reason for doing it? (4) Outcome What would be the resulting effect on the information asset?		_	ices to proxy malicio attack other targets.	us traffic	to	
	What would information (5) Secution How would requirement (6) Prob			□ Disclosure□ Destruction☑ Modification☑ Interruption				
			Requirements offormation asset's security oreached?	Integrity seriously breached. availability impacted.				
		(6) Probabili What is the likelil scenario could oc	hood that this threat	☐ High	☐ Medium	Ø	Low	
	What are			ne organization or the information asset e and breach of security requirements?		(8) Severity How severe are these consequences to the organization or asset owner by impact area?		
					Impact Area	Value	Score	
		_	noticed, he will perform I lead to the network ow	-	Reputation & Confidence	М	8	
	legal consequences for the h		or the harm caused.		Financial	L	5	
			activities could lead to i		Productivity	М	6	
	_	-	rative costs and perform		Safety & Health	L	6	
					Fines & Legal Penalties	Н	3	
					User Defined Impact Area	Н	6	
					Relative Ris	sk Score	34	

(9) Risk Mitigation Based on the total score for this risk, what action will you take?									
☐ Accept	☐ Defer	✓ Mitigate	☐ Transfer						
For the risks that you	For the risks that you decide to mitigate, perform the following:								
On what container would you apply controls?	What administrative, technical, and p would still be accepted by the organiz	hysical controls would you apply on thataion?	is container? What residual risk						
Networks	Configure router for network segmentation, divide Private network, IoT network and Guest network. Implement firewall rules to allow only necessary traffic.								
Network	Selectively allow internet co	nnection only to trusted devic	es.						
Network	Isolate IoT WiFi clients to pr	revent unnecessary cross-talki	ng.						

Alle	Allegro - Worksheet 10 In		Information Asset Ri	SK WORKSHEET				
In fo	T hr	Information Asset	Internet Connection					
r m at io n A	ea t	Area of Concern	Execution of remote un	Execution of remote unauthorized activities - Residual risk				
		(1) Actor Who would explo	it the area of concern or	Individual or c	organized Advanced	Threat Ac	tor	
ss et R		(2) Means How would the actor do it? What would they do?		Exploitation of firmware bugs and vulnerabilities in IoT devices leading to RCE and botnet.				
is k		(3) Motive What is the actor's reason for doing it?		_	ices to proxy malicionattack other targets.	ous traffic	to	
	What inform (5) S How v requir (6) F What	(4) Outcome What would be th information asset	e resulting effect on the	☐ Disclo	_	estruction nterruption	1	
			Requirements of ormation asset's security oreached?	Integrity seriously breached. availability impacted.				
		(6) Probabili What is the likelii scenario could oc	hood that this threat	☐ High	☐ Medium	Ø	Low	
	What ar		to the organization or the infor come and breach of security rec					
					Impact Area	Value	Score	
			e can lead to increased per battery duration, imp		Reputation & Confidence	L	4	
	operat	ive costs and pe	erformances.	-	Financial	L	5	
					Productivity	L	3	
					Safety & Health	L	6	
					Fines & Legal Penalties	L	1	
					User Defined Impact Area	L	2	
					Relative Ri	sk Score	21	

(9) Risk Mitigation Based on the total score for this risk, what action will you take?									
✓ Accept	☐ Defer	☐ Mitigate	☐ Transfer						
For the risks that you	For the risks that you decide to mitigate, perform the following:								
On what container would you apply controls?	What administrative, technical, and pwould still be accepted by the organization.	ohysical controls would you apply on thi zation?	s container? What residual risk						

Allegro - Worksheet 10		orksheet 10	Information Asset Risk Worksheet					
In fo	T hr	Information Asset	Internet Connection	Internet Connection				
r m	ea t	Area of Concern	Lateral movement of th	Lateral movement of threat actor in home network				
at io n		(1) Actor Who concern or threat	o would exploit the area of ?	Individual or o skills.	organized threat actor	with tech	nnical	
A ss et R		(2) Means How would the actor do it? What would they do?		Exploited IoT device used as an entry point, allowing malicious actors to further exploit other devices, analyze network traffic and exfiltrate files.				
is k		(3) Motive What is the actor's reason for doing it?		·	sitive data for financi ntials or blackmailing		e.	
		(4) Outcome What would be th information asset	e resulting effect on the	✓ Disclosure☐ Destruction☐ Modification☐ Interruption				
			Requirements How ation asset's security breached?	Confidentiality and integrity of the network are breached.			are	
		(6) Probabili What is the likelih scenario could oc	nood that this threat	☐ High	☐ Medium	V	Low	
	What are		o the organization or the information asset ome and breach of security requirements?		(8) Severity How severe are these consequences to the organization or asset owner by impact area?			
					Impact Area	Value	Score	
			and sensitive data like are can take control of the	•	Reputation & Confidence	Н	12	
	with p	_	trous consequences for	privacy and	Financial	Н	15	
			ds in exfiltrating person iling or asking payment		Productivity	Н	9	
		ase them.			Safety & Health	M	12	
	not on	ly the househol	ess work devices and fil d members but also the	•	Fines & Legal Penalties	M	2	
	they w	ork for.			User Defined Impact Area	Н	6	

(9) Risk Mitigation Based on the total score for this risk, what action will you take?							
☐ Accept	☐ Defer	✓ Mitigate	☐ Transfer				
For the risks that you	decide to mitigate, perform th	e following:					
On what container would you apply controls?	What administrative, technical, and p would still be accepted by the organiz	hysical controls would you apply on thi ation?	s container? What residual risk				
Network	https						
Network	strong passwords						
Network	password change policy						
Network	Network segmentation / Tri-l	oand router					
Devices	Software updates						

Allegro - Worksheet 10		orksheet 10	Information Asset Risk Worksheet					
In fo	T hr	Information Asset	Internet Connection	Internet Connection				
r m at	ea t	Area of Concern	Reaching maximum nu	Reaching maximum number of clients / connections supported by router			r	
io n A		(1) Actor Who would explothreat?	it the area of concern or	-				
ss et R		(2) Means How would the actor do it? What would they do?		Most consumer routers have a practical limit to the number of concurrent hosts or connections supported.				
is k	(3) Motive What is the actor		's reason for doing it?	The limit can be devices to hom	oe easily reached who ne network	en adding	smart	
		(4) Outcome What would be ti information asse		e resulting effect on the	☐ Disclos		estruction nterruption	ı
			Requirements of ormation asset's security oreached?	Availability impacted				
	(6) Probabi What is the like scenario could d		hood that this threat	☐ High	✓ Medium		Low	
	What are	(7) Consequences What are the consequences to the organization or the information owner as a result of the outcome and breach of security requires			(8) Severity How severe are these consequences to the organization or asset owner by impact area?			
					Impact Area	Value	Score	
	Instabi	lity and slowne	ess of the network		Reputation & Confidence	L	4	
					Financial	L	5	
	Possib	le crashes or re	boots of router		Productivity	Н	9	
					Safety & Health	L	6	
	Inabili	ty of new devic	ees to connect to the net	work	Fines & Legal Penalties	L	1	
					User Defined Impact Area	Н	6	
					Relative Ris	sk Score	62	

(9) Risk Mitigation Based on the total score for this risk, what action will you take?							
☐ Accept	☐ Defer	✓ Mitigate	☐ Transfer				
For the risks that you	decide to mitigate, perform the	following:					
On what container would you apply controls?	What administrative, technical, and phy would still be accepted by the organizat		nis container? What residual risk				
Network	Configure a cascade router for network and Guest network. In Use dedicated WiFi for IoT de	nplement firewall rules to a					

Allegro - Worksheet 10		orksheet 10	Information Asset Risk Worksheet					
In fo	T hr	Information Asset	Internet Connection	Internet Connection				
r m	ea t	Area of Concern	Attacks to home gatewo	Attacks to home gateway				
at io n		(1) Actor Who	o would exploit the area of ?	External threat	, no specific skills no	eeded		
A ss et R is		(2) Means How would the actor do it? What would they do?		After mapping open ports on the router using recon tools and fingerprinting exposed services, the home gateway is attacked using dictionary and brute force techniques or exploiting specific vulnerabilities.				
k		(3) Motive What is the actor	's reason for doing it?		yay to exfiltrate data, al movement or C2C			
		(4) Outcome What would be th information asset	e resulting effect on the	☑ Disclos	_	estruction	n	
			Requirements formation asset's security oreached?	Confidentiality and integrity of Home network breached.			rk	
		(6) Probabili What is the likelil scenario could oc	hood that this threat	✓ High	☐ Medium		Low	
	What are		to the organization or the infor come and breach of security rec		(8) Severity How se consequences to the orgal by impact area?			
					Impact Area	Value	Score	
			npering of smart-home		Reputation & Confidence	M	8	
		s, including do	or locks, video cameras	and other	Financial	L	5	
			re on gateway, lateral m		Productivity	Н	9	
	remote control and data exfiltration. Potential exaccounts and payment details stored on gateway cloud services and iot devices. Attack of other other network.			vay, connected	Safety & Health	M	10	
	In any case, abuse of computing resources impacts systems leading to poor performances, potential failures and unavailability.				Fines & Legal Penalties	М	2	
					User Defined Impact Area	Н	6	
					Relative Ri	sk Score	120	

(9) Risk Mitigation Based on the total score for this risk, what action will you take?							
☐ Accept	☐ Defer	✓ Mitigate	☐ Transfer				
For the risks that you	decide to mitigate, perform the f	ollowing:					
On what container would you apply controls?	What administrative, technical, and physi would still be accepted by the organizatio		container? What residual risk				
Home Gateway	Prefer Cloudflare tunnels or webhook systems which allow external communication without opening ports on the router.						
Home Gateway	Enable HTTPS if available						
Network	Use WAF or firewall to limit ma	aximum login attempts					
Home Gateway	Keep software updated						