



Agenda

Introduction	1
Demographics	2
Results Summary	2
Results by Vertical	5
Results by Region	8

Introduction

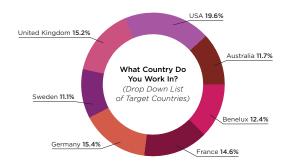
In 2019, Extreme Networks conducted a survey of 540 IT professionals to determine their views on network security.

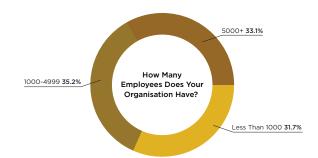
The survey covered areas such as

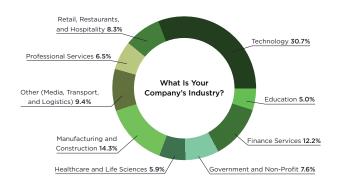
- Security awareness and perception
- Security practices
- IoT security
- Network Access Control Security

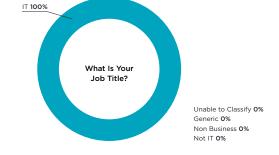
The results are included in this report.

Demographics









Results Summary

Q1 Do you feel your organization's network is at risk from cyberattacks and/or breaches?

Yes, very concerned
Yes, there is at least some risk
No, our network is secured against attacks and breaches
No, our network is not a target for attacks or breaches.4.6%
Q2 Do you feel this risk largely originates on the outside or on the inside of your organization?
Mostly outside
Mostly inside16.6%
About equal - inside and outside27.9%
Q3 Do you use Internet of Things in your organization?
Yes, and our device population has been increasing 56.9%
Yes, but IoT use is limited/very limited26.9%
No, but we are considering
introducing IoT in the next 12 months8.7%
No, we don't use IoT and
are not considering an introduction
Q4 If you use IoT, do you take measures to secure them?
Yes, we use the pre-set passwords they come with 48.7%
Yes, we take incremental/specific
measures to secure them48.7%
No
Q5 If you use IoT, are you aware of attempts to hack them?
Yes, there have been attempts to hack our IoT45.6%
Yes, our IoT have been targeted
and have been successfully hacked25.0%
Not aware of any, but can't say for sure they have not been hacked
Sale they have not been hacked

target of hack attempts......20.4%

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No, our IoT have never been the

Q6 Are you totally confident that you have visibility into all the devices on your network?	Q11 Which of these security solutions do you currently have deployed?
Yes	Firewall
No 27.6 %	Mobile Device Management/Enterprise Mobility Management (MDM/EMM)51.4%
Q7 Do you onboard and secure guest, BYOD and	Other endpoint security/management solution35.1%
corporate devices differently, and how?	Intrusion Detection/Prevention (IDS/IPS)45.6%
Yes, different approach for each of the three groups 33%	Identity and Access Management (IAM)47.7%
No, same approach for all three groups12%	Unified Threat Management (UTM)28.9%
Yes, we use one approach for corporate devices, and a different approach for guest and/or BYOD 23 %	Security Information and Event Management (SIEM) 34.3 % Other
We use 802.1X authentication for corporate devices13%	
We use pre-shared keys (PSK) for guest devices11%	Q12 Have you implemented a Network Access Control
We use pre-shared keys (PSK) for BYOD9%	(NAC) solution, or are you considering implementing one?
	No, and not considering NAC5.6%
Q8 Do you secure your wired devices and/or Ethernet ports?	Yes, successfully implemented NAC or currently implementing
Yes90.4%	No, but currently considering NAC13.9%
No9.6%	Yes, but with partial success26.5%
Q9 Do you currently use 802.1X authentication?	Q13 What were/are your top 3 drivers for adopting a NAC solution?
Yes, for wired and wireless devices58.3%	Security for growing device
Yes, only for wired devices	population, including IoT and BYOD52.7%
Yes, only for wireless devices10.6%	Efficient and secure onboarding
No	of corporate, guest and BYOD devices
	Want to automate certain security tasks
Q10 What are/were your biggest pain points when	Comprehensive authentication, including 802.1X31.4%
implementing 802.1X authentication?	Control access to the network (block, quarantine, redirect, remediate)32.1%
Deploying Certificates	Use NAC to orchestrate other security
Deploying Device Profiles30.3%	tools (e.g. firewalls, MDM/EMM, IDS/IPS)18.6%
Troubleshooting Client Connectivity25.8%	Guest management9.8%
Not Sure	Other (please specify)
N/A our 802.1X deployment was straightforward6.7%	
Other	

Q14 If you have not implemented a NAC solution, what concerns are holding you back?

Would not provide enough additional functionality beyond our other security solutions (e.g. firewalls,	
IAM, MDM/EMM, SIEM, UTM)	11.1%
Deployment complexity	5.6%
Too costly to deploy and/or maintain	5.6%
Lack of qualified networking or security personnel	5.6%
Need for outside consulting services	2.8%
Would not scale (well) across our multiple sites	8.3%
N/A. My organization is currently	
not interested in NAC	. 36.1%
Other	25.0%

Q15 If you consider your NAC implementation unsuccessful, what were the main reasons?

Too complex to implement	. 19.2%
Lack of qualified networking/security personnel	36.8%
Too much effort/too costly to maintain	29.0%
Does not scale across our different sites	15.0%

Q16 What is/would be your preferred deployment model for a NAC solution?

On-premises deployment	.28.1%
Cloud deployment (all functionality in the cloud)	41.5%
Hybrid model (some functionality in the cloud, some on-premises)	27.3%
RADIUS in the cloud, some/all other functionality on-premises	3.1%
Other	0%

Q17 Would anything hold you back from adopting a cloud-based solution?

Concerns about cloud-hosting security	31 %
Uptime/availability concerns2	4%
Our IT Security solutions are required to reside on-premises 2	6%
Data security/privacy concerns1	8%
Other: <free field="" text=""></free>	1%

Results by Vertical

	Education	Finance Services	Government and Non-Profit	Healthcare and Life Sciences	Manufacturing and Construction	Other (Other/Media/Transport and Logistics)	Professional Services	Retail and Restaurants and Hospitality	Technology
Q1 Do you feel your organization's netwo	ork is at ri	sk from c	yberatta	cks and/	or breach	es?			
Yes, very concerned	25.9%	50.0%	29.3%	40.6%	39.0%	41.2%	28.6%	44.4%	49.4%
Yes, there is at least some risk	48.1%	37.9%	48.8%	43.8%	40.3%	29.4%	57.1%	28.9%	33.1%
No, our network is secured against attacks and breaches	14.8%	10.6%	14.6%	12.5%	16.9%	19.6%	14.3%	24.4%	12.7%
No, our network is not a target for attacks or breaches	11.1%	1.5%	7.3%	3.1%	3.9%	9.8%	0.0%	2.2%	4.8%
Q2 Do you feel this risk largely originates on the outside or on the inside of your organization?									
Mostly outside	60.0%	55.2%	59.4%	63.0%	65.6%	52.8%	66.7%	48.5%	48.2%
Mostly inside	10.0%	15.5%	15.6%	7.4%	9.8%	25.0%	6.7%	21.2%	21.9%
About equal - inside and outside	30.0%	29.3%	25.0%	29.6%	24.6%	22.2%	26.7%	30.3%	29.9%
Q3 Do you use Internet	of Things	in your o	organizat	ion?					
Yes, and our device population has been increasing	29.6%	57.6%	31.7%	65.6%	63.6%	49.0%	48.6%	60.0%	65.7%
Yes, but IoT use is limited/very limited	44.4%	30.3%	29.3%	9.4%	19.5%	21.6%	34.3%	31.1%	27.7%
No, but we are considering introducing IoT in the next 12 months	11.1%	6.1%	9.8%	18.8%	15.6%	15.7%	11.4%	2.2%	3.0%
No, we don't use IoT and are not considering an introduction	14.8%	6.1%	29.3%	6.3%	1.3%	13.7%	5.7%	6.7%	3.6%
Q4 If you use IoT, do you	ı take me	asures to	secure tl	nem?					
Yes, we use the pre-set passwords they come with	40.0%	58.6%	44.0%	41.7%	42.2%	58.3%	37.9%	43.9%	51.6%
Yes, we take incremental/specific measures to secure them	55.0%	41.4%	56.0%	45.8%	56.3%	38.9%	51.7%	51.2%	47.7%
No	5.0%	0.0%	0.0%	12.5%	1.6%	2.8%	10.3%	4.9%	0.6%
Q5 If you use IoT, are you	aware of	attempts	to hack	them?					
Yes, there have been attempts to hack our IoT	30.0%	63.8%	52.0%	45.8%	45.3%	38.9%	24.1%	43.9%	45.8%
Yes, our IoT have been targeted and have been successfully hacked	35.0%	24.1%	28.0%	20.8%	17.2%	22.2%	31.0%	24.4%	27.1%
Not aware of any, but can't say for sure they have not been hacked	15.0%	5.2%	8.0%	8.3%	10.9%	8.3%	20.7%	4.9%	8.4%
No, our IoT have never been the target of hack attempts	20.0%	6.9%	12.0%	25.0%	26.6%	30.6%	24.1%	26.8%	18.7%
Q6 Are you totally confident that you ha	ve visibili	ty into all	the devi	ces on yo	our netwo	rk?			
Yes	51.9%	78.5%	65.9%	59.4%	68.8%	76.5%	74.3%	75.6%	76.5%
No	48.1%	21.5%	34.1%	40.6%	31.2%	23.5%	25.7%	24.4%	23.5%
Q7 Do you onboard and secure guest, BYOD and co	rporate d	evices di	fferently,	and how	? (Select	all that a	pply)		
Yes, different approach for each of the three groups	14	32	16	12	26	21	16	20	97
No, same approach for all three groups	9	11	4	8	16	11	5	14	17
Yes, we use one approach for corporate devices, and a different approach for guest and/or BYOD.	4	29	10	10	27	8	16	12	59
We use 802.1X authentication for corporate devices	1	13	6	4	23	6	12	11	24
We use pre-shared keys (PSK) for guest devices	2	5	10	3	22	2	6	9	24
We use pre-shared keys (PSK) for BYOD	1	8	6	4	14	12	3	6	12
Q8 Do you secure your win	ed device	es and/or	Ethernet	ports?					
Yes	74.1%	92.3%	85.4%	90.6%	96.1%	90.2%	94.3%	86.7%	91.0%
No	25.9%	7.7%	14.6%	9.4%	3.9%	9.8%	5.7%	13.3%	9.0%

	Education	Finance Services	Government and Non-Profit	Healthcare and Life Sciences	Manufacturing and Construction	Other (Other/Media/Transport and Logistics)	Professional Services	Retail and Restaurants and Hospitality	Technology	
Q9 Do you currently	use 802.	1X auther	ntication?							
Yes, for wired and wireless devices 48.1% 76.9% 43.9% 43.8% 54.5% 62.7% 51.4% 60.0% 60.2%										
Yes, only for wired devices	14.8%	13.8%	22.0%	25.0%	19.5%	19.6%	14.3%	20.0%	22.3%	
Yes, only for wireless devices	11.1%	6.2%	12.2%	12.5%	6.5%	7.8%	17.1%	6.7%	13.9%	
No	25.9%	3.1%	22.0%	18.8%	19.5%	9.8%	17.1%	13.3%	3.6%	
Q10 What are/were your biggest pain po	ints wher	n implem	enting 80	2.1X autl	nenticatio	n?				
Deploying Certificates	39.3%	33.0%	23.5%	23.8%	34.0%	29.7%	33.3%	31.8%	31.3%	
Deploying Device Profiles	21.4%	29.4%	29.4%	31.0%	29.1%	26.6%	27.5%	34.8%	32.5%	
Troubleshooting Client Connectivity	17.9%	24.8%	19.6%	33.3%	27.2%	21.9%	27.5%	21.2%	28.3%	
Not Sure	14.3%	2.8%	13.7%	4.8%	0.0%	9.4%	7.8%	1.5%	4.9%	
N/A our 802.1X deployment was straightforward	7.1%	9.2%	9.8%	7.1%	9.7%	9.4%	3.9%	9.1%	3.0%	
Other	0.0%	0.9%	3.9%	0.0%	0.0%	3.1%	0.0%	1.5%	0.0%	
Q11 Which of these security solu	tions do	you curre	ently have	deploye	ed?					
Firewall	77.8%	72.3%	80.5%	87.5%	88.3%	64.7%	74.3%	73.3%	72.3%	
Mobile Device Management/Enterprise Mobility Management (MDM/EMM)	22.2%	63.1%	56.1%	46.9%	48.1%	41.2%	45.7%	60.0%	54.8%	
Other endpoint security/management solution	37.0%	49.2%	36.6%	40.6%	33.8%	23.5%	28.6%	35.6%	33.1%	
Intrusion Detection/Prevention (IDS/IPS)	22.2%	53.8%	41.5%	46.9%	51.9%	39.2%	34.3%	46.7%	48.2%	
Identity and Access Management (IAM)	40.7%	47.7%	41.5%	59.4%	57.1%	39.2%	34.3%	37.8%	51.8%	
Unified Threat Management (UTM)	18.5%	33.8%	24.4%	40.6%	37.7%	17.6%	28.6%	26.7%	27.7%	
Security Information and Event Management (SIEM)	25.9%	35.4%	31.7%	25.0%	50.6%	27.5%	45.7%	28.9%	31.3%	
Other	0.0%	3.1%	7.3%	0.0%	0.0%	3.9%	2.9%	4.4%	1.2%	
Q12 Have you implemented a Network Access Contro	l (NAC) s	olution, o	or are you	ı conside	ring impl	ementin	g one?			
No, and not considering NAC	11.1%	3.1%	12.2%	12.5%	2.6%	11.8%	2.9%	6.7%	2.4%	
Yes, successfully implemented NAC or currently implementing	44.4%	64.6%	39.0%	34.4%	53.2%	45.1%	60.0%	53.3%	60.8%	
No, but currently considering NAC	18.5%	3.1%	17.1%	28.1%	13.0%	21.6%	22.9%	8.9%	11.4%	
Yes, but with partial success	25.9%	29.2%	31.7%	25.0%	31.2%	21.6%	14.3%	31.1%	25.3%	
Q13 What were/are your top 3	drivers f	or adopti	ng a NAC	solution	1?					
Security for growing device population, including IoT and BYOD	37.0%	64.6%	36.6%	50.0%	49.4%	35.3%	62.9%	62.2%	57.2%	
Efficient and secure onboarding of corporate, guest and BYOD devices	33.3%	60.0%	46.3%	28.1%	37.7%	27.5%	40.0%	51.1%	48.2%	
Want to automate certain security tasks	11.1%	35.4%	26.8%	40.6%	48.1%	31.4%	37.1%	28.9%	38.0%	
Comprehensive authentication, including 802.1X	29.6%	35.4%	19.5%	31.3%	33.8%	29.4%	34.3%	40.0%	29.5%	
Control access to the network (block, quarantine, redirect, remediate)	33.3%	32.3%	34.1%	28.1%	40.3%	33.3%	31.4%	26.7%	29.5%	
Use NAC to orchestrate other security tools (e.g. firewalls, MDM/EMM, IDS/IPS)	3.7%	15.4%	9.8%	28.1%	28.6%	21.6%	14.3%	6.7%	21.1%	
Guest management	25.9%	4.6%	12.2%	12.5%	10.4%	9.8%	14.3%	4.4%	8.4%	
Other (please specify)	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	

	Education	Finance Services	Government and Non-Profit	Healthcare and Life Sciences	Manufacturing and Construction	Other (Other/Media/Transport and Logistics)	Professional Services	Retail and Restaurants and Hospitality	Technology
Q14 If you have not implemented a NAC	solution,	what co	ncerns ar	e holding	you bac	k?			
Would not provide enough additional functionality beyond our other security solutions (e.g. firewalls, IAM, MDM/EMM, SIEM, UTM).	33.3%	0.0%	0.0%	14.3%	0.0%	0.0%	0.0%	20.0%	25.0%
Deployment complexity	0.0%	0.0%	0.0%	14.3%	0.0%	16.7%	0.0%	0.0%	0.0%
Too costly to deploy and/or maintain	0.0%	0.0%	0.0%	14.3%	0.0%	16.7%	0.0%	0.0%	0.0%
Lack of qualified networking or security personnel	0.0%	0.0%	0.0%	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%
Need for outside consulting services	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Would not scale (well) across our multiple sites	0.0%	0.0%	16.7%	14.3%	0.0%	0.0%	0.0%	20.0%	0.0%
N/A. My organization is currently not interested in NAC	66.7%	0.0%	50.0%	0.0%	50.0%	33.3%	0.0%	40.0%	75.0%
Other	0.0%	100.0%	33.3%	0.0%	50.0%	33.3%	100.0%	20.0%	0.0%
Q15 If you consider your NAC implements	ation uns	uccessful	, what we	ere the m	ain reaso	ns?			
Too complex to implement	22.2%	10.7%	20.0%	18.2%	28.1%	20.0%	14.3%	10.5%	21.1%
Lack of qualified networking/security personnel	33.3%	42.9%	33.3%	27.3%	31.3%	46.7%	14.3%	36.8%	40.4%
Too much effort/too costly to maintain	0.0%	39.3%	40.0%	36.4%	25.0%	26.7%	28.6%	31.6%	26.3%
Does not scale across our different sites	44.4%	7.1%	6.7%	18.2%	15.6%	6.7%	42.9%	21.1%	12.3%
Q16 What is/would be your preferr	ed deplo	yment mo	odel for a	NAC sol	ution?				
On-premises deployment	37.5%	22.2%	33.3%	14.3%	21.3%	28.9%	29.4%	35.7%	30.9%
Cloud deployment (all functionality in the cloud)	29.2%	50.8%	33.3%	46.4%	41.3%	37.8%	38.2%	31.0%	45.1%
Hybrid model (some functionality in the cloud, some on-premises)	33.3%	25.4%	33.3%	25.0%	37.3%	24.4%	32.4%	28.6%	21.0%
RADIUS in the cloud, some/all other functionality on-premises	0.0%	1.6%	0.0%	14.3%	0.0%	8.9%	0.0%	4.8%	3.1%
Q17 Would anything hold you back	k from a	dopting a	cloud-b	ased solu	ıtion				
Concerns about cloud-hosting security	48.1%	49.2%	39.0%	43.8%	37.7%	39.2%	51.4%	55.6%	48.2%
Uptime/availability concerns	22.2%	46.2%	24.4%	34.4%	39.0%	39.2%	40.0%	31.1%	37.3%
Our IT Security solutions are required to reside on-premises	18.5%	46.2%	31.7%	31.3%	39.0%	27.5%	31.4%	35.6%	49.4%
Data security/privacy concerns	33.3%	13.8%	39.0%	31.3%	37.7%	21.6%	31.4%	22.2%	25.9%
Other: <free field="" text=""></free>	0.0%	0.0%	2.4%	0.0%	0.0%	2.0%	2.9%	4.4%	0.0%

Results by Region

	Benelux	France	Germany	Sweden	United Kingdom	USA	Australia
Q1 Do you feel your organization's network is at risk from c	yberattac	ks and/o	r breache	es?			
Yes, very concerned	41.8%	39.2%	45.8%	38.3%	40.2%	41.5%	49.2%
Yes, there is at least some risk	32.8%	35.4%	33.7%	40.0%	46.3%	34.0%	47.6%
No, our network is secured against attacks and breaches	14.9%	22.8%	15.7%	16.7%	9.8%	18.9%	3.2%
No, our network is not a target for attacks or breaches	10.4%	2.5%	4.8%	5.0%	3.7%	5.7%	0.0%
Q2 Do you feel this risk largely originates on the outside or on	the insid	le of your	organiza	ation?			
Mostly outside	48.0%	72.9%	34.8%	68.1%	53.5%	50.0%	67.2%
Mostly inside	30.0%	13.6%	31.8%	14.9%	7.0%	15.0%	6.6%
About equal – inside and outside	22.0%	13.6%	33.3%	17.0%	39.4%	35.0%	26.2%
Q3 Do you use Internet of Things in your o							
Yes, and our device population has been increasing	46.3%	51.9%	54.2%	36.7%	68.3%	65.1%	68.3%
Yes, but IoT use is limited/very limited	34.3%	22.8%	33.7%	38.3%	24.4%	19.8%	19.0%
No, but we are considering introducing IoT in the next 12 months	4.5%	15.2%	7.2%	5.0%	6.1%	10.4%	11.1%
No, we don't use IoT and are not considering an introduction Q4 If you use IoT, do you take measures to	14.9%	10.1%	4.8%	20.0%	1.2%	4.7%	1.6%
Yes, we use the pre-set passwords they come with	55.6%	55.9%	50.7%	42.2%	32.9%	47.8%	60.0%
Yes, we take incremental/specific measures to secure them	44.4%	42.4%	43.8%	48.9%	64.5%	51.1%	40.0%
No	0.0%	1.7%	5.5%	8.9%	2.6%	1.1%	0.0%
Q5 If you use IoT, are you aware of attempts			0.070	0.070	21070	11170	0.070
Yes, there have been attempts to hack our IoT	55.6%	44.1%	49.3%	35.6%	39.5%	35.6%	65.5%
Yes, our IoT have been targeted and have been successfully hacked	25.9%	23.7%	28.8%	24.4%	25.0%	28.9%	14.5%
Not aware of any, but can't say for sure they have not been hacked	3.7%	11.9%	5.5%	15.6%	14.5%	7.8%	5.5%
No, our IoT have never been the target of hack attempts	14.8%	20.3%	16.4%	24.4%	21.1%	27.8%	14.5%
Q6 Are you totally confident that you have visibility into all	the devic	es on yo	ur netwo	rk?			
Yes	76.1%	74.4%	72.3%	51.7%	75.6%	74.5%	77.8%
No	23.9%	25.6%	27.7%	48.3%	24.4%	25.5%	22.2%
Q7 Do you onboard and secure guest, BYOD and corporate devices dif	ferently,	and how?	(Select	all that a	pply)		
Yes, different approach for each of the three groups	26	21	49	30	43	55	30
No, same approach for all three groups	12	14	18	13	11	15	12
Yes, we use one approach for corporate devices, and a different approach for guest and/or BYOD.	15	21	26	16	32	43	22
We use 802.1X authentication for corporate devices	11	11	17	5	13	21	22
We use pre-shared keys (PSK) for guest devices	11	22	11	5	9	10	15
We use pre-shared keys (PSK) for BYOD	17	17	5	1	6	9	11
Q8 Do you secure your wired devices and/or	Ethernet	ports?				1	
Yes	93.2%	88.5%	89.2%	86.7%	97.6%	89.6%	92.1%
No	6.8%	11.5%	10.8%	13.3%	2.4%	10.4%	7.9%
Q9 Do you currently use 802.1X auther	tication?						
Yes, for wired and wireless devices	52.4%	52.6%	59.0%	30.0%	68.3%	60.4%	66.7%
Yes, only for wired devices	11.9%	19.2%	24.1%	25.0%	20.7%	17.9%	15.9%
Yes, only for wireless devices	7.1%	10.3%	10.8%	21.7%	6.1%	9.4%	9.5%
No	28.6%	17.9%	6.0%	23.3%	4.9%	12.3%	7.9%

	Benelux	France	Germany	Sweden	United Kingdom	USA	Australia
Q10 What are/were your biggest pain points when impleme	enting 80	2.1X auth	enticatio	n?			
Deploying Certificates	30.1%	33.0%	34.1%	25.8%	32.8%	31.2%	29.4%
Deploying Device Profiles	28.0%	29.0%	30.1%	28.8%	29.6%	29.4%	37.3%
Troubleshooting Client Connectivity	23.7%	20.0%	26.8%	19.7%	25.6%	32.4%	25.5%
Not Sure	8.6%	6.0%	4.9%	16.7%	1.6%	1.8%	3.9%
N/A our 802.1X deployment was straightforward	6.5%	12.0%	4.1%	6.1%	10.4%	4.7%	3.9%
Other	3.2%	0.0%	0.0%	3.0%	0.0%	0.6%	0.0%
Q11 Which of these security solutions do you curre	ntly have	deploye	d?				
Firewall	56.0%	76.9%	77.1%	73.3%	89.0%	69.8%	74.6%
Mobile Device Management/Enterprise Mobility Management (MDM/EMM)	34.5%	42.3%	54.2%	55.0%	61.0%	58.5%	39.7%
Other endpoint security/management solution	29.8%	26.9%	39.8%	38.3%	32.9%	29.2%	46.0%
Intrusion Detection/Prevention (IDS/IPS)	34.5%	46.2%	44.6%	26.7%	43.9%	53.8%	55.6%
Identity and Access Management (IAM)	26.2%	43.6%	47.0%	38.3%	59.8%	55.7%	49.2%
Unified Threat Management (UTM)	17.9%	26.9%	27.7%	16.7%	34.1%	31.1%	41.3%
Security Information and Event Management (SIEM)	19.0%	30.8%	28.9%	25.0%	39.0%	47.2%	38.1%
Other	6.0%	0.0%	2.4%	8.3%	0.0%	0.0%	0.0%
Q12 Have you implemented a Network Access Control (NAC) solution, o	r are you	conside	ring impl	ementing	one?		
No, and not considering NAC	11.9%	6.4%	4.8%	13.3%	2.4%	2.8%	0.0%
Yes, successfully implemented NAC or currently implementing	59.7%	55.1%	45.8%	41.7%	59.8%	52.8%	63.5%
No, but currently considering NAC	3.0%	17.9%	15.7%	20.0%	13.4%	17.0%	7.9%
Yes, but with partial success	25.4%	20.5%	33.7%	25.0%	24.4%	27.4%	28.6%
Q13 What were/are your top 3 drivers for adoption	ng a NAC	solution	?				
Security for growing device population, including IoT and BYOD	43.3%	48.7%	48.2%	35.0%	70.7%	61.3%	52.4%
Efficient and secure onboarding of corporate, guest and BYOD devices	43.3%	41.0%	38.6%	33.3%	42.7%	52.8%	50.8%
Want to automate certain security tasks	23.9%	30.8%	38.6%	28.3%	34.1%	38.7%	54.0%
Comprehensive authentication, including 802.1X	26.9%	29.5%	39.8%	21.7%	35.4%	25.5%	41.3%
Control access to the network (block, quarantine, redirect, remediate)	23.9%	30.8%	28.9%	28.3%	40.2%	32.1%	39.7%
Use NAC to orchestrate other security tools (e.g. firewalls, MDM/EMM, IDS/IPS)	11.9%	17.9%	21.7%	10.0%	18.3%	24.5%	20.6%
Guest management	11.9%	3.8%	14.5%	18.3%	7.3%	9.4%	4.8%
Other (please specify)	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%
Q14 If you have not implemented a NAC solution, what cor	ncerns ar	e holding	you back	(?			
Would not provide enough additional functionality beyond our other security solutions (e.g. firewalls, IAM, MDM/EMM, SIEM, UTM).	9.1%	0.0%	25.0%	20.0%	0.0%	0.0%	0.0%
Deployment complexity	0.0%	0.0%	0.0%	10.0%	50.0%	0.0%	0.0%
Too costly to deploy and/or maintain	0.0%	0.0%	0.0%	10.0%	50.0%	0.0%	0.0%
Lack of qualified networking or security personnel	0.0%	16.7%	0.0%	10.0%	0.0%	0.0%	0.0%
Need for outside consulting services	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Would not scale (well) across our multiple sites	9.1%	16.7%	25.0%	0.0%	0.0%	0.0%	0.0%
N/A. My organization is currently not interested in NAC	36.4%	50.0%	25.0%	20.0%	0.0%	100.0%	0.0%
Other	45.5%	0.0%	25.0%	30.0%	0.0%	0.0%	0.0%

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Q15 If you consider your NAC implementation unsuccessful, what were the main reasons?							
Too complex to implement	23.8%	27.3%	28.2%	11.1%	15.4%	14.3%	12.0%
Lack of qualified networking/security personnel	47.6%	27.3%	28.2%	38.9%	46.2%	38.1%	36.0%
Too much effort/too costly to maintain	19.0%	22.7%	35.9%	33.3%	19.2%	28.6%	40.0%
Does not scale across our different sites	9.5%	22.7%	7.7%	16.7%	19.2%	19.0%	12.0%
Q16 What is/would be your preferred deployment model for a NAC solution?							
On-premises deployment	27.1%	31.5%	26.6%	25.0%	22.5%	31.1%	31.7%
Cloud deployment (all functionality in the cloud)	45.8%	38.4%	44.3%	40.4%	45.0%	38.8%	38.1%
Hybrid model (some functionality in the cloud, some on-premises)	23.7%	30.1%	27.8%	25.0%	31.3%	23.3%	30.2%
RADIUS in the cloud, some/all other functionality on-premises	3.4%	0.0%	1.3%	9.6%	1.3%	6.8%	0.0%
Q17 Would anything hold you back from adopting a cloud-based solution							
Concerns about cloud-hosting security	46.3%	44.9%	37.3%	31.7%	62.2%	45.3%	50.8%
Uptime/availability concerns	31.3%	44.9%	36.1%	28.3%	34.1%	32.1%	50.8%
Our IT Security solutions are required to reside on-premises	28.4%	29.5%	48.2%	26.7%	39.0%	50.0%	44.4%
Data security/privacy concerns	14.9%	26.9%	26.5%	26.7%	31.7%	32.1%	30.2%
Other: <free field="" text=""></free>	1.5%	0.0%	1.2%	0.0%	1.2%	1.9%	0.0%



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