NIST Smart Home Security & Privacy Study Screenshots

5 January 2022

First Screen

Smart Home Security and Privacy Survey

OMB #0693-0043 3/31/2022

This survey is being conducted on behalf of the National Institute of Standards and Technology (NIST), which, in part, works with industry and other agencies to develop information technology (IT) standards and cultivate trust in IT. For this effort, NIST is interested in users of smart home devices and their thoughts about the security and privacy of those devices. NIST has partnered with Fors Marsh Group (FMG), an independent research firm, to administer this survey and learn more about consumers' smart home security and privacy concerns, actions, information sources, and expectations. Your responses will assist NIST in improving standards for smart home devices.

Please know that nothing you share will be connected to your name. We are collecting this information strictly to inform our research, and all of your information will be kept confidential

It is important that you know the following information before you decide to complete the survey:

- Purpose: This study is being performed to understand consumers' smart home security and privacy concerns, actions, information sources, and
- Duration. We anticipate that your participation in this research study will take approximately 20 minutes.
 Procedures and Activities. You will complete an online survey regarding your security and privacy concerns, actions, and perceptions related to your smart home devices. Your survey response will be collected without any personal identifiers.
- Voluntary consent: Taking part in this study is completely voluntary. You may decide to participate or not participate.
 Risks and Benefits: This research is considered to be minimal risk. That means that the risks associated with this study are the same as what you face every day. You will not benefit directly by participating in the study. The long-term benefits of this study should be improved standards for the usability, security, and privacy of smart home devices.

We also have more detailed information available to you about this survey and your privacy. Select the additional pages you would like to read below, if any, before proceeding with the survey. NIST Information Sheet By continuing with the survey, you acknowledge that the following is true for you: I understand the above description of the research and the risks and benefits associated with my participation as a research subject. I understand that by proceeding with this survey I agree to take part in this research and do so voluntarily. If you have any technical issues while taking the survey, please email the help desk at <a href="https://www.nisthancommons.org/nisthancommons.org/list-at-nisthancommons.org/nisthancom regarding incentives, please contact surveysupport@swagbucks.com

Thank you for your time and participation! When you are ready to begin the survey, click Next.

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A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0693-0043. Without this approval, we could not conduct this survey. Public reporting for this information collection is estimated to be approximately 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the National Institute of Standards and Technology at: Attn: Julie Haney, 100 Bureau Drive, Gaithersburg, MD 20899 or julie.haney@nist.gov.

Information Sheet:

Smart Home Security and Privacy Survey

Information Sheet for Study

Principal Investigator: Julie Haney, National Institute of Standards and Technology Study Title: Smart Home Security and Privacy Survey Study Site(s): Online survey is administered by Fors Marsh Group.

Key Information
This is a brief summary of key information to describe the research study you are being invited to participate in. You will find more detailed information explained later in this document.

- Purpose: This study is being performed to understand consumers' smart home security and privacy concerns, actions, information sources, and

- expectations.

 **Duration:* We anticipate that your participation in this research study will take approximately 20 minutes.

 **Procedures and Activities:* You will complete an online survey regarding your security and privacy concerns, actions, and perceptions related to your smart home devices. Your survey response will be collected without any personal identifiers.

 **Voluntary consent:* Taking part in this study is completely voluntary. You may decide to participate on not participate.

 **Raks and Benofits:* This research is considered to be minimal risk.* That means that the risks associated with this study are the same as what you face every day. You will not benefit directly by participating in the study. The long-term benefits of this study should be improved standards for the usability, security, and privacy of smart home devices.

Introduction

You are being asked to take part in a research study. Research studies include only people who choose to take part. This document is called an information sheet and is for you to read carefully before you make your decision about participating in the study. Ask the researcher or study staff to discuss this information sheet with you. Please ask them to explain any words or information sheet with you. Please ask them to explain any words or information you do not clearly understand. The nature of the study, risks, inconvenience discomforts, and other important information about the study are provided below.

The person who is in charge of this research study is Julie Haney. This person is called the Principal Investigator. However, other research staff may be involved and can act on behalf of the person in charge

Purpose of the study
This study is being performed to understand consumers' smart home security and privacy concerns, actions, information sources, and expectations. To gain
this understanding, we are conducting a survey of smart home users from across the United States. Study results will contribute to the development of
standards that reflect the security and privacy needs and preferences of smart home consumers. The research is funded and conducted by the National
institute of Standards and Technology (NST).

Why are you being asked to take part?

We are asking you to take part in this research study because you are an adult who lives in the U.S. and are an active user of a smart home device in at least one of the following categories: withus vicce assistants (e.g., Amazon Aloxa), smart thermostats (e.g., Nest, Ecobee); smart security devices (e.g., cameras, video doorbeils, garage door openers), smart environment sensors (e.g., smoke or leak detectors); and smart lighting (e.g., lightbulbs, lighting systems).

Study Procedures: If you take part in this study, you will be asked to do the following:

- In the online survey, select the poes/categories of smart home devices that you own or use in your household. You will be asked to complete the survey based on your experiences with devices in only one of those device categories.

 You will be asked questions solved, your verse on the security and privacy of your smart home devices, including your security and privacy concerns (if any), what actions you take to alleviate those concerns (if any); who you think is responsible for the security and privacy of your devices, and what in Thire study should take you approximately 20 minutes to complete.

Total Number of Participants
About 400 individuals will take part in this online survey.

Voluntary Participation / Withdrawal
You do not have to participate in this research study.
You should only take part in this study if you want to volunteer. You should not feel that there is any pressure to take part in the study. You are free to participate in this research or withdraw at any time. There will be no penalty or loss of benefits you are otherwise entitled to receive if you stop taking part in this study. You may withdraw from the study by our will be not you stop surely our sold performs the study by our data will be removed from the research record. However, once you have submitted the survey, your data cannot be removed since there will be no way to associate your response with your dentity sences survey responses are collected anonymously.

Risks or Discomfort
This research is considered to be minimal risk. That means that the risks associated with this study are the same as what you face every day. There are no known additional risks to those who take part in this study. There is also a very small risk that someone who is not authorized could get access to the data. However, we describe how we will protect your confidentiality in a later section of this information sheet.

Costs
It will not cost you anything to take part in the study.

Privacy and Confidentiality

We will keep your study records private and confidential. Your survey responses will be assigned an identification number that will not be linked back to you. All survey data will be stored on an encrypted computer or hard drive in a locked office.

Certain people may need to see your study records. Anyone who looks at your records must keep them confidential. These individuals include:

- The research team, including the Principal Investigator, study coordinator, and all other research staff.
 Certain government people who need to know more about the study, and individuals who provide oversight to ensure that we are doing the study in the right way.
 Any agency of the federal, state, or local government that regulates this research, including the Office for Human Research Protection (OHRP).

Your identity will be protected to the extent permitted by law, including the Freedom of Information Act. We may publish what we learn from this study. If we do, we will not include your name. We will not publish anything that would let people know who you are. Total confidentiality cannot be guaranteed, since all security measures have vulnerabilities and may be compromised.

Future use of research data and/or specimens
The survey data will be retained for study record keeping per NIST institutional policy. Data will not be used for any additional research studies

You can get the answers to your questions, concerns, or complaints If you have any questions, concerns, or complaints about this study or experience an unanticipated problem or research-related injury, call or email Julie Haney at 301-319-5072 or julie haney@mst.gov

If you have questions about your rights as a participant in this study or have complaints, concerns or issues you want to discuss with someone outside the research team, call the Research Protections Office (RPO) at (301) 975-5445.

You should only decide to participate if the following is true for you:

I understand the above description of the research and the risks and benefits associated with my participation as a research subject. I understand that by proceeding with this survey I agree to take part in this research and do so voluntarily.

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Smart Home Security and Privacy Survey

Throughout the survey, the following terms are used:

- Smart home device is a network-connected device (connected via Wi-Fi, Bluetooth, or similar technologies) that is used to remotely and/or more
- effectively and easily control functions or physical aspects of the home.

 Smart home device app is an application on your smartphone, computer, laptop, or tablet that is used to remotely control or access your smart home
- In the context of the survey, security refers to the technologies and techniques used to protect smart home devices and the data (information) they collect from unauthorized access or digital (cyber) attack. In this survey, "security" is equivalent to "cybersecurity." Physical security related to the home or its occupants is different and will be referred to as "home security."
 Privacy refers to the state in which individuals feel free from unwarranted observation or intrusions, including the right of a device owner or user to maintain control over and be assured confidentiality of any personal information that is collected, transmitted, used, and stored while using smart home
- devices.

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Question 1:

Smart Home Devices	
Which of the following smart home devices do you own or use in your house? (Select al Remember: A smart home device is a network-connected device (connected via Wi-Fi, effectively and easily control functions or physical aspects of the home.	
Virtual voice assistants and smart speakers (e.g., Amazon Echo/Alexa, Google No	st Home Hub, Apple HomePod)
▼ Thermostats (e.g., Nest, Ecobee)	
Home security devices (e.g., video doorbells, cameras, door locks, garage door o	peners)
Home environment sensors (e.g., smoke and leak detectors)	
Lighting devices (e.g., lightbulbs, lighting systems). This category does not includ	smart plugs that control lights.
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Question 2:

Smart Home Security and Privacy Survey

Smart Home Devices	
Unless otherwise indicated, please answer the following questions based on your thermostats (e.g., Nest, Ecobee) only.	
How many thermostats (e.g., Nest, Ecobee) do you own or use in your house?	
1 device	
2 to 3 devices	
4 to 5 devices	
6 to 7 devices	
8 or 9 devices	
10 or more devices	

Smart Home Security and Privacy Survey

Unless told otherwise, please answer the following questions for your thermostats (e.g., Nest, Ecobee) only. Remember:

- Security refers to the technologies and techniques used to protect smart home devices and the data (information) they collect from unauthorized access or digital (cyber) attack. In this survey, "security" is equivalent to "cybersecurity." Physical security related to the home or its occupants is different and will be referred to as "home security."
 The privacy of smart home devices refers to the right of a party to maintain control over and be assured confidentiality of personal information that is collected, transmitted, used, and stored during the use of smart home devices.

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Question 3:

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

Regarding what you think is currently true about your thermostats (e.g., Nest, Ecobee), please rate your level of agreement with the following:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I think that most of these smart home devices are secure.	0	\circ	0	0	\circ
I think that most of these smart home devices protect my privacy.	0	0	0	0	0

Question 4:

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

How concerned are you with the following for your thermostats?

	Not at all Concerned	Slightly Concerned	Somewhat Concerned	Moderately Concerned	Extremely Concerned
The security of my smart home devices	0	0	\circ	0	\bigcirc
The <u>privacy</u> of my smart home devices	0	0	0	0	0

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Question 5:

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

Regarding your thermostats, please rate your level of agreement with the following statements:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I understand the <u>security</u> risks associated with my smart home devices.	0	\circ	0	\circ	0
I understand the <u>privacy</u> risks associated with my smart home devices.	0	0	0	0	0

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Question 6:

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

For each of the following security-related scenarios involving your thermostats, please rate your level of concern.

	Not at All Concerned	Slightly Concerned	Somewhat Concerned	Moderately Concerned	Extremely Concerned
A security problem with my smart home data exposing members of my household to identity theft or financial loss.	\circ	0	\circ	0	\circ
A security problem with my smart home device leading to unauthorized access to my other devices (e.g., smartphones, computers, tablets, or other smart home devices).	0	0	0	0	0
A security problem with my smart home device leading to my device being used as part of a botnet.	0	0	0	0	0

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Question 7:

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

For each of the following privacy-related scenarios involving your thermostats, please rate your level of concern. "Others" can refer to device manufacturers, advertisers, hackers/attackers (unauthorized individuals), the government, or other third-party organizations.

Somewhat Concerned Not at all Slightly Concerned Moderately Concerned Extremely Concerned Concerned Others using my smart home data in ways that I don't expect or \bigcirc 0 Others misrepresenting my smart home data in an inaccurate, \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc insulting, or unflattering manner. Having to provide more personal or private information than I

 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc feel comfortable with when setting up or using my smart home device. Others using my smart home data to uniquely identify members \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc of my household. Others using my smart home data to create inferences/assumptions about members of my household that could result in embarrassment or discrimination. Others tracking or monitoring my smart home data or usage in a manner that could result in physical harm to members of my \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc household. Others tracking or monitoring my smart home data or usage in a manner that could result in a violation of the individual rights \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc of members of my household. Others collecting and combining different kinds of smart home data and revealing private things about members of my \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc Members of my household not having awareness of what data is being collected by my smart home devices. \bigcirc \bigcirc Members of my household not having awareness of how data \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc collected by my smart home devices is being used.

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If respondent selects "Not at all concerned" or "Slightly Concerned" for all of the items in Question 7, they will see this version of Question 8:

Question 8A:

hat ar	re some reasons why you may have slight or no privacy or security concerns? (Select all that apply.)
TI	he benefits of using this type of device outweigh the risks
M	ly data/devices aren't interesting enough for someone to target
TI	he chances of this type of device being hacked are low
TI	he actions I take on my own alleviate my concerns
TI	he consequences of this type of device being hacked would be minimal
M	ly devices are already secure
lt	trust the device manufacturers to protect my privacy
_ lı	understand how my data will be collected and used
I t	believe that I have control over my data
M	fy data is out there anyway
I	have nothing to hide
	don't know
0	Other, please specify

If respondents answers "Somewhat Concerned," "Moderately Concerned," or "Extremely Concerned" for at least one of the items in Question 7, they will see this version of Question 8:

Question 8B:

Question 9:

ich of the following actions have you taken for yo	ur thermostats? (Select all that apply.)
Set a password or PIN on my smart home dev	rice/app
Used two-factor or biometric authentication (e. device/app	g., password plus verification code, face recognition, fingerprint authentication) on my smart home
Been careful about not placing my smart home	e devices in more sensitive or private areas of my home
Been careful about what I do/say when near m	ny smart home devices
Set up or changed specific security/privacy set	ttings on my smart home devices
Limited the amount of information I enter in my	y smart home device app
Installed updates to my smart home devices w	hen available or set the devices to automatically update
Limited who can perform certain actions (e.g.,	voice-assisted ordering, changing settings) on my smart home devices
Other privacy or security related actions, pleas	se specify:
I haven't done any of these	
I don't know or am not sure - I am not the pers	on in my household who takes these actions.

Question 10:

Smart Home Security and Privacy Survey

Securi	ity and Privacy Concerns and Actions
Which o	of the following actions have you taken on your home network (e.g., your home Wi-Fi)? (Select all that apply.)
Se	et a Wi-Fi password
Us	sed <u>WPA2/3</u> encryption for my Wi-Fi
Us	sed a virtual private network (VPN)
Se	et up my home network so that my smart home devices are separated from other devices on the network (i.e., network segmentation, subnetworkin
Fi	ilter/control access to my home network (e.g., using a firewall or router)
$\overline{}$	inplemented security best practices (e.g., updating, enabling authentication) for my smart phone or other devices I use to access my smart home
_	evice apps ther privacy or security related actions, please specify:
	don't do any of these
	don't know or am not sure - I am not the person in my household who takes these actions.

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Question 11:

Items selected in Questions 9 and 10 will be used to populate this question. This question will be skipped if respondents select "I haven't done any of these" or "I don't know or am not sure" for both Questions 9 and 10.

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

For each of the actions you have taken, please rate your agreement with the following statement:

This action decreases my security and privacy concerns for my thermostats.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Set a password or PIN on my smart home device/app	0	0	0	0	0
Used two-factor or biometric authentication (e.g., password plus verification code, face recognition, fingerprint authentication) on my smart home device/app	0	0	0	0	0
Been careful about not placing my smart home devices in more sensitive or private areas of my home	0	0	0	0	0
Been careful about what I do/say when near my smart home devices	0	\circ	\circ	0	\circ
Set up or changed specific security/privacy settings on my smart home devices		\circ	\circ		
Limited the amount of information I enter in my smart home device app	0	\circ	\circ	0	\circ
Installed updates to my smart home devices when available or set the devices to automatically update	0	\circ	\circ		\circ
Limited who can perform certain actions (e.g., voice-assisted ordering, changing settings) on my smart home devices	0	\circ	\circ		\circ
Set a Wi-Fi password	0	0	0	0	0
Used WPA2/3 encryption for my Wi-Fi	0	0	0	0	0
Used a virtual private network (VPN)	0	0	0	0	0
Set up my home network so that my smart home devices are separated from other devices on the network (i.e., network segmentation, subnetworking)	0	0	0	0	0
Filter/control access to my home network (e.g., using a firewall or router)	0	0	0	0	0
Implemented security best practices (e.g., updating, enabling authentication) for my smart phone or other devices I use to access my smart home device apps	0	0	0	0	0

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Question 12:

Smart Home Security and Privacy Survey

Security and Privacy Concerns and Actions

For each of the following statements related to your thermostats, please rate your agreement:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
It is easy to secure my smart home device.	0	0	0	\circ	0
It is easy to protect my privacy when using my smart home device.	\circ	0	0	\circ	0

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Question 13:

Smart Home Security and Privacy Survey

Security and I	Privacy Concerns and Actions
Vhat keeps you	from taking any actions, or more actions than you already take, to ease your security concerns for your thermostats? (Select all that apply
I do not uno	derstand smart home security enough to know what I should do
I do not uno	derstand the smart home device enough to know what I should do to secure my device
The smart	home device or device manufacturer does not provide enough options for setting my security preferences
I do not kno	ow if the device or device manufacturer provides any options for setting my security preferences
I would like	to take actions/more action, but it is not a high priority for me at this time
Other, plea	ise specify:
Nothing pre	events me—I am not concerned about the security of my smart home devices
Nothing pre	events me—I have taken action and am satisfied with what I have already done to secure my devices

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Question 14:

hat keeps you from takin	g any actions, or more actions than you already take, to ease your <u>privacy</u> concerns for your thermostats? (Select all that apply
I do not understand s	smart home privacy (including data collection and use) enough to know what I should do
I do not understand t	he smart home device enough to know what I should do to protect my privacy
The smart home dev	ice or device manufacturer does not provide enough options for setting my privacy preferences
I do not know if the d	evice or device manufacturer provides any options for setting my privacy preferences
I would like to take a	ctions/more action, but it is not a high priority for me at this time
Other, please specify	
Nothing prevents me	—I am not concerned about the privacy of my smart home devices
Nothing prevents me	—I have taken action and am satisfied with what I have already done to protect my privacy

Question 15:

hich of the following would you	like to do for your thermostats but are currently not doing? (Select all that apply.)
	n leaving my home network etric authentication (e.g., password plus verification code, face recognition, fingerprint authentication) for the smart home
	data collection and usage practices
There's nothing additional	'd like to do.

Question 16:

Smart Home Security and Privacy Survey

Responsibility

Please indicate your agreement with the following statements about your thermostats:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I think that the manufacturers currently provide me with enough options to set my own security preferences.	0	0	0	0	\circ
I think the manufacturers currently provide me with enough options to set my own <u>privacy</u> preferences.	0	0	0	0	0
I have to take action on my own to secure my smart home devices.	0	0	0	0	0
I have to take action on my own to protect my privacy when using my smart home devices.	0	0	0	0	0

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Question 17:

Smart Home Security and Privacy Survey

Responsibility

How responsible are you *currently* for the following aspects of your thermostats?

	Not at all Responsible	Slightly Responsible	Somewhat Responsible	Mostly Responsible	Completely Responsible
Security		0	\bigcirc	\bigcirc	0
Privacy	0	0	0	0	0

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Question 18:

Smart Home Security and Privacy Survey

Responsibility

How responsible should you be for the following aspects of your thermostats?

	Not at all Responsible	Slightly Responsible	Somewhat Responsible	Mostly Responsible	Completely Responsible
Security	0	0	0	0	\circ
Privacy	0	0	0	0	0

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Question 19:

Smart Home Security and Privacy Survey

Responsibility

How responsible are <u>device manufacturers</u> currently for the following aspects of your thermostats?

	Not at all Responsible	Slightly Responsible	Somewhat Responsible	Mostly Responsible	Completely Responsible
Security	0	\circ	\circ	\circ	\circ
Privacy	0	0		0	0

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Question 20:

Smart Home Security and Privacy Survey

Responsibility

How responsible should $\underline{\text{device manufacturers}}$ be for the following aspects of your thermostats?

	Not at all Responsible	Slightly Responsible	Somewhat Responsible	Mostly Responsible	Completely Responsible
Security	0	0	0	0	0
Privacy	0	0	\circ	0	\circ

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Question 21:

Smart Home Security and Privacy Survey

Responsibility

How responsible is the government currently for the following aspects of your thermostats?

	Not at all Responsible	Slightly Responsible	Somewhat Responsible	Mostly Responsible	Completely Responsible
Security	0	\circ	0	0	0
Privacy	0		0	0	0

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Question 22:

Smart Home Security and Privacy Survey

Responsibility

How responsible \emph{should} the $\emph{government}$ be for the following aspects of your thermostats?

	Not at all Responsible	Slightly Responsible	Somewhat Responsible	Mostly Responsible	Completely Responsible
Security	0	0	\circ	\bigcirc	\bigcirc
Privacy	0	\circ	\bigcirc	\bigcirc	\bigcirc

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Question 23:

Smart Home Security and Privacy Survey

Responsibility

If someone were to hack (gain unauthorized access) into your thermostats smart home device or data, how much would you blame each of the following?

	Not Blame at All	Slightly Blame	Somewhat Blame	Mostly Blame	Completely Blame
Myself or other household members	0			0	\circ
Device manufacturers	0	0	0	0	0
Government	0	0	0	0	0

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Question 24:

Smart Home Security and Privacy Survey

Responsibility

Rate your agreement with the following statements:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I feel able to protect my smart home device's security.		0	\circ		0
I feel able to protect my privacy when using my smart home device.	0	0	0	0	0
I am willing to put in the effort to protect my privacy when using my smart home device.	0	0	0	0	0
I am willing to put in the effort to secure my smart home device.	0	0	0	0	0

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Question 25:

Smart Home Security and Privacy Survey

Security & Privacy Information Sources
How do you currently learn about the security and privacy features of your thermostats? (Select all that apply.)
Manufacturer's website
Online retailer website product description (e.g., Amazon or Best Buy websites)
Online forums discussing smart home devices (e.g., Reddit)
Social media
Family or friends
News articles/stories
Product package
Device privacy policy or user level agreement
☐ Information included on an in-store retail outlet's product shelf label or display
Security vulnerability databases/repositories
My workplace
Internet service provider
Videos, webinars, or other online training
Other, please specify:
I don't currently seek out security and privacy information about my devices

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Question 26:

Smart Home Security and Privacy Survey

Security & Privacy Information Sources
In what ways would you like to learn about the security and privacy features of your thermostats in the future? (Select all that apply.)
Manufacturer's website
Online retailer website
Online forums discussing smart home devices (e.g., Reddit)
Social media
Family or friends
News articles/stories
Product package
Device privacy policy or user level agreement
☐ Information included on an in-store retail outlet's product shelf label or display
Security vulnerability databases/repositories
My workplace
☐ Internet service provider
Videos, webinars, or other online training
Other, please specify:
I'm not interested in learning more about the security and privacy features of my devices

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Question 27:

Smart Home Security and Privacy Survey

Security & Privacy Information Sources

How likely are you to use the following information to inform your future purchases of thermostats?

	Very Unlikely	Unlikely	Neutral	Likely	Very Likely
Information on the security and privacy risks of my smart home device	0	\circ	0	0	0
Information on the device manufacturer's data practices, including collection and use of data	0	0	0	0	0
Information on what <u>security</u> features and options are included in my device	0	0	0	0	0
Information on what <u>privacy</u> features and options are included in my device	0	0	0	0	0
Information on whether the product has met some kind of minimum security or privacy standards	0	0	0	0	0

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Question 28:

Smart Home Security and Privacy Survey

Security & Privacy Information Sources

How likely would you be to $\underline{\operatorname{act}}$ on the following information for your thermostats?

	Very Unlikely	Unlikely	Neutral	Likely	Very Likely
Recommendations on how to better <u>secure my smart home</u> <u>device</u> (e.g., by configuring device security options)	0	\circ	\circ	0	0
Recommendations on how to better secure my home network	0	\circ	\circ	\circ	0
Recommendations on how to better protect my <u>privacy</u> when using my smart home device (e.g., by configuring device privacy options)	0	0	0	0	0

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Question 29:

Smart Home Security and Privacy Survey

Security & Privacy Information Sources

 $How trusting would you be of a \underline{security \ and \ privacy \ rating \ or \ label} \ for \ your \ thermostats \ if \ provided \ by \ the \ following?$

	Very Distrusting	Distrusting	Neutral	Trusting	Very Trusting
U.S. Government		0			
Device manufacturer	0	0	0	0	0
Not-for-profit organization that performs independent product evaluations (e.g., Consumer Reports)	0	0	0	0	0
A for-profit organization that does independent product evaluations	0	0	0	0	0
A smart home device retailer (e.g., Best Buy or Amazon)	0	0	0	0	0

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Question 30:

ow long have you been using smart h	ome devices?		
Less than one year			
1 to 2 years			
3 to 5 years			
6 or more years			
Prefer not to answer			

Question 31:

ow would you best describ	e your role with respect to your smart home devices?
I am an administrator when something goes	of smart home devices in my household - I installed the devices or I am the one who configures the devices or troubleshoots wrong.
I am an active user of	the smart home devices but not an administrator
Other, please specify:	

Question 32:

Smart Home Security and Privacy Survey



Smart Home Security and Privacy Survey





Question 33:

Smart Home Security and Privacy Survey		
Do you own or rent your home? Own Rent		
Other: Prefer not to answer		
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Question 34:

n which type of area is your home? Rural	
Suburban	
Urban	
Prefer not to answer	

Question 35:

18 to 24			
25 to 34			
35 to 44			
45 to 54			
55 to 64			
65 or older			
Prefer not to answer			

Question 36:

. What is your gender?		
Male Female		
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Question 37:

What is your ethnicity? You may skip this question.	
Hispanic or Latino Not Hispanic or Latino	

Question 38:

American Indian or Alaska Native		
Asian		
Black or African American		
Native Hawaiian or Other Pacific Is	lander	
White		

Question 39:

.

Less than high school degree			
High school degree or equivalent			
Some college			
Associate degree			
Bachelor's degree			
Graduate degree (e.g., Master's, PhD	MD, or Juris Doctoral)		
Other, please specify:	li li		
Prefer not to answer			

Question 40:

Employed full-time			
Employed part-time			
Full-time student, currer			
Retired, currently not er			
Currently not employed			

Question 41:

Have you ever received a degree in or worked in a field/job related to computers, information technology (IT), cybersecurity, or privacy? Degree examples: Computer Science, Computer Engineering, Information Technology, Cybersecurity, Data and Privacy Law Job examples: System administrator, network engineer, IT help desk, cybersecurity policy, software developer, privacy engineer	
○ No ○ Yes	
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Question 42:

Less than \$25,000	
\$25,000 to \$34,999	
\$35,000 to \$49,999	
\$50,000 to \$74,999	
\$75,000 to \$99,999	
\$100,000 to \$149,999	
\$150,000 to \$199,999	
\$200,000 to \$299,999	
\$300,000 to \$399,999	
) \$400,000 and above) Prefer not to answer	
) I Totol flot to unswor	
	« Back Submit
The selection of se	
	completing the NIST Smart Home Security and Privacy
	results are saved and you may now exit the survey.