

Variables Listing

Questionnaire - internal data

Apart from your questions, you will find in the data record additional variables, as far as you have not deactivated this option when downloading the data record.

CASE Serial number of the subject

REF Reference, if such has been provided in the link to the questionnaire

LASTPAGE Page number of the questionnaire that has been edited and sent last

QUESTNNR ID of the questionnaire that has been edited

MODE Information if the questionnaire has been started by pretest or by a project member

STARTED Time the interviewee opened the questionnaire

FINISHED Information if the questionnaire has been completed up to the last page

TIME_001... Time that an interviewee has spend on a questionnaire page

Please note that you can not read the internal variables of the questionnaire with the function value(). For interview number and reference there are the PHP functions [PHP function caseNumber\(\)](#) and [PHP function reference\(\)](#)

Details about additional variables can be find in the manual: [Additional Variables in the Data Set](#)

Section CS: Consent Section

[CS01] Selection

Consent

"Do you agree with the above terms for participating in the study?"

CS01 Consent

1 = Yes

2 = No

-9 = Not answered

[CS06] Selection

DQ Meaningless Responses

"Have you answered all questions in the study according to the provided instructions? Please answer honestly...."

CS06 DQ Meaningless Responses

1 = I answered all questions according to the provided instructions.

2 = I sometimes chose random answer options because I was not motivated to answer the question or did not know how to answer it.

3 = I often chose random answer options because I wanted to finish as quickly as possible.

-9 = Not answered

[CS07] Selection

DQ Distraction

"Could you complete the questionnaire without distractions? Please answer honestly. Your answer has NO conseq..."

CS07 DQ Distraction

1 = I completed the study with full attention.

2 = I was sometimes distracted (by people, noises, etc.).

3 = I was often distracted (by people, noises, etc.).

-9 = Not answered

[CS10] Selection

HonestyCheck

"We care about the quality of our data. In order for us to get the most accurate measures of your knowledge a..."

CS10 HonestyCheck

1 = I will provide my best answers.

2 = I will NOT provide my best answers.

3 = I cannot promise either way.

-9 = Not answered

Section R1: Smart home device posession

[R101] Multiple Choice

Ownership of devices

"Which of the following Smart Home devices do you own? (Select all that apply.)"

R101 Ownership of devices: Residual option (negative) or number of selected options

Integer

R101_01 Smart Coffee Maker**R101_02** Smart Dishwasher**R101_03** Smart Door Lock**R101_04** Smart Doorbell**R101_05** Smart Electricity Meter**R101_06** Smart Electrical Outlet**R101_07** Smart Fridge**R101_08** Smart Gardening Equipment**R101_09** Smart Heating/Cooling System**R101_10** Smart Home Monitoring System**R101_11** Smart Lightbulb**R101_12** Smart Oven**R101_13** Smart Robot**R101_14** Smart Speaker**R101_15** Smart Stove**R101_16** Smart TV**R101_17** Smart Thermostat**R101_18** Smart Toy**R101_19** Smart Vacuum Cleaner**R101_20** Smart Washing Machine

1 = Not checked

2 = Checked

[R102] Multiple Choice**R101_1****R102 R101_1:** Residual option (negative) or number of selected options

Integer

R102_01 Other (please specify)

1 = Not checked

2 = Checked

R102_01a Other (please specify) (free text)

Free text

Section R2: Purchase decision

[R201] Selection**Device Price D1**

"What was the purchase price of the %device%?"

R201 Device Price D1

26 = Free/Gift
 27 = Less than \$5
 1 = \$5.01 - \$10.00
 2 = \$10.01 - \$20.00
 3 = \$20.01 - \$40.00
 4 = \$40.01 - \$60.00
 5 = \$60.01 - \$80.00
 6 = \$80.01 - \$100.00
 7 = \$100.01 - \$120.00
 8 = \$120.01 - \$140.00
 9 = \$140.01 - \$160.00
 10 = \$160.01 - \$180.00
 11 = \$180.01 - \$200.00
 12 = \$200.01 - \$250.00
 13 = \$250.01 - \$300.00
 14 = \$300.01 - \$350.00
 15 = \$300.51 - \$400.00
 16 = \$400.51 - \$450.00
 17 = \$450.01 - \$500.00
 18 = \$500.01 - \$750.00
 19 = \$750.01 - \$1000.00
 20 = \$1000.01 - \$1250.00
 21 = \$1251.01 - \$1500.00
 22 = \$1500.01 - \$2000.00
 23 = \$2000.01 - \$2500.00
 24 = \$2500.01 - \$3000.00
 25 = More than \$3000
 -9 = Not answered

[R202] Selection**Device Price D2**

"What was the purchase price of the %device%?"

R202 Device Price D2

26 = Free/Gift
 27 = Less than \$5
 1 = \$5.01 - \$10.00
 2 = \$10.01 - \$20.00
 3 = \$20.01 - \$40.00
 4 = \$40.01 - \$60.00
 5 = \$60.01 - \$80.00
 6 = \$80.01 - \$100.00
 7 = \$100.01 - \$120.00
 8 = \$120.01 - \$140.00
 9 = \$140.01 - \$160.00
 10 = \$160.01 - \$180.00
 11 = \$180.01 - \$200.00
 12 = \$200.01 - \$250.00
 13 = \$250.01 - \$300.00
 14 = \$300.01 - \$350.00
 15 = \$300.51 - \$400.00
 16 = \$400.51 - \$450.00
 17 = \$450.01 - \$500.00
 18 = \$500.01 - \$750.00
 19 = \$750.01 - \$1000.00
 20 = \$1000.01 - \$1250.00
 21 = \$1251.01 - \$1500.00
 22 = \$1500.01 - \$2000.00
 23 = \$2000.01 - \$2500.00
 24 = \$2500.01 - \$3000.00
 25 = More than \$3000
 -9 = Not answered

[R203] Selection
Device Price D3
 "What was the purchase price of the %device%?"

R203 Device Price D3

- 26 = Free/Gift.
- 27 = Less than \$5
- 1 = \$5.01 - \$10.00
- 2 = \$10.01 - \$20.00
- 3 = \$20.01 - \$40.00
- 4 = \$40.01 - \$60.00
- 5 = \$60.01 - \$80.00
- 6 = \$80.01 - \$100.00
- 7 = \$100.01 - \$120.00
- 8 = \$120.01 - \$140.00
- 9 = \$140.01 - \$160.00
- 10 = \$160.01 - \$180.00
- 11 = \$180.01 - \$200.00
- 12 = \$200.01 - \$250.00
- 13 = \$250.01 - \$300.00
- 14 = \$300.01 - \$350.00
- 15 = \$300.51 - \$400.00
- 16 = \$400.51 - \$450.00
- 17 = \$450.01 - \$500.00
- 18 = \$500.01 - \$750.00
- 19 = \$750.01 - \$1000.00
- 20 = \$1000.01 - \$1250.00
- 21 = \$1251.01 - \$1500.00
- 22 = \$1500.01 - \$2000.00
- 23 = \$2000.01 - \$2500.00
- 24 = \$2500.01 - \$3000.00
- 25 = More than \$3000
- 9 = Not answered

[R204] Selection
Purchase Location D1
 "Where did you purchase this %device%?"

R204 Purchase Location D1

- 1 = Budget online store from your own country
- 2 = Online store from another country
- 3 = Brick-and-mortar store other than that of the manufacturer (but not a general purpose or departmental store)
- 4 = Brick-and-mortar general purpose or departmental store
- 5 = Received as a gift
- 6 = Other (please specify):
- 9 = Not answered

R204_06 Other (please specify)

Free text

[R205] Selection
Purchase Location D2
 "Where did you purchase this %device%?"

R205 Purchase Location D2

- 1 = Budget online store from your own country
- 2 = Online store from another country
- 3 = Brick-and-mortar store other than that of the manufacturer (but not a general purpose or departmental store)
- 4 = Brick-and-mortar general purpose or departmental store
- 5 = Received as a gift
- 6 = Other (please specify):
- 9 = Not answered

R205_06 Other (please specify)

Free text

[R206] Selection
Purchase Location D3
 "Where did you purchase this %device%?"

R206 Purchase Location D3

- 1 = Budget online store from your own country
- 2 = Online store from another country
- 3 = Brick-and-mortar store other than that of the manufacturer (but not a general purpose or departmental store)
- 4 = Brick-and-mortar general purpose or departmental store
- 5 = Received as a gift
- 6 = Other (please specify):
- 9 = Not answered

R206_06 Other (please specify)

Free text

[R207] Selection

Second hand D1

"Did you purchase a used %device%?"

R207 Second hand D1

1 = Yes

2 = No

-9 = Not answered

[R208] Selection

Second hand D2

"Did you purchase a used %device%?"

R208 Second hand D2

1 = Yes

2 = No

-9 = Not answered

[R209] Selection

Second hand D3

"Did you purchase a used %device%?"

R209 Second hand D3

1 = Yes

2 = No

-9 = Not answered

[R210] Multiple Choice

Use Case D1

"What is the primary use of the %device%? (Select all that apply.)"

R210 Use Case D1: Residual option (negative) or number of selected options

Integer

R210_01 Increasing convenience**R210_02** Saving money**R210_03** Reducing power consumption**R210_04** Providing safety for household members**R210_05** Automating tasks**R210_06** Experimenting with latest trends in technology**R210_07** Other (please specify)

1 = Not checked

2 = Checked

R210_07a Other (please specify) (free text)

Free text

[R211] Multiple Choice

Use Case D1_N

"What would be the primary use for the %device%? (Select all that apply.)"

R211 Use Case D1_N: Residual option (negative) or number of selected options

Integer

R211_01 Increasing convenience**R211_02** Saving money**R211_03** Reducing power consumption**R211_04** Providing safety for household members**R211_05** Automating tasks**R211_06** Experimenting with latest trends in technology**R211_07** Other (please specify)

1 = Not checked

2 = Checked

R211_07a Other (please specify) (free text)

Free text

[R212] Multiple Choice

Use Case D2

"What is the primary use of the %device%? (Select all that apply.)"

R212 Use Case D2: Residual option (negative) or number of selected options

Integer

R212_01 Increasing convenience**R212_02** Saving money**R212_03** Reducing power consumption**R212_04** Providing safety for household members**R212_05** Automating tasks**R212_06** Experimenting with latest trends in technology**R212_07** Other (please specify)

1 = Not checked

2 = Checked

R212_07a Other (please specify) (free text)

Free text

[R213] Multiple Choice

Use Case D2_N

"What would be the primary use for the %device%? (Select all that apply.)"

R213 Use Case D2_N: Residual option (negative) or number of selected options

Integer

R213_01 Increasing convenience**R213_02** Saving money**R213_03** Reducing power consumption**R213_04** Providing safety for household members**R213_05** Automating tasks**R213_06** Experimenting with latest trends in technology**R213_07** Other (please specify)

1 = Not checked

2 = Checked

R213_07a Other (please specify) (free text)

Free text

[R214] Multiple Choice

Use Case D3

"What is the primary use of the %device%? (Select all that apply.)"

R214 Use Case D3: Residual option (negative) or number of selected options

Integer

R214_01 Increasing convenience**R214_02** Saving money**R214_03** Reducing power consumption**R214_04** Providing safety for household members**R214_05** Automating tasks**R214_06** Experimenting with latest trends in technology**R214_07** Other (please specify)

1 = Not checked

2 = Checked

R214_07a Other (please specify) (free text)

Free text

[R215] Multiple Choice

Use Case D3_N

"What would be the primary use for the %device%? (Select all that apply.)"

R215 Use Case D3_N: Residual option (negative) or number of selected options

Integer

R215_01 Increasing convenience**R215_02** Saving money**R215_03** Reducing power consumption**R215_04** Providing safety for household members**R215_05** Automating tasks**R215_06** Experimenting with latest trends in technology**R215_07** Other (please specify)

1 = Not checked

2 = Checked

R215_07a Other (please specify) (free text)

Free text

[R216] Multiple Choice

Education about Device D1

"Which of the following sources did you consult prior to purchasing a %device%?"

R216 Education about Device D1: Residual option (negative) or number of selected options

Integer

R216_01 Online reviews**R216_02** Online forums**R216_03** Print media (e.g., Newspapers, Magazines, etc.)**R216_04** Friends and Family**R216_05** Online news sites**R216_06** Other (please specify)

1 = Not checked

2 = Checked

R216_06a Other (please specify) (free text)

Free text

[R217] Multiple Choice

Education about Device D1_N

"Which of the following sources would you consult prior to purchasing a %device%?"

R217 Education about Device D1_N: Residual option (negative) or number of selected options

Integer

R217_01 Online reviews**R217_02** Online forums**R217_03** Print media (e.g., Newspapers, Magazines, etc.)**R217_04** Friends and Family**R217_05** Online news sites**R217_06** Other (please specify)

1 = Not checked

2 = Checked

R217_06a Other (please specify) (free text)

Free text

[R218] Multiple Choice
Education about Device D2

"Which of the following sources did you consult prior to purchasing a %device%?"

R218 Education about Device D2: Residual option (negative) or number of selected options

Integer

R218_01 Online reviews

R218_02 Online forums

R218_03 Print media (e.g., Newspapers, Magazines, etc.)

R218_04 Friends and Family

R218_05 Online news sites

R218_06 Other (please specify)

1 = Not checked

2 = Checked

R218_06a Other (please specify) (free text)

Free text

[R219] Multiple Choice

Education about Device D2_N

"Which of the following sources would you consult prior to purchasing a %device%?"

R219 Education about Device D2_N: Residual option (negative) or number of selected options

Integer

R219_01 Online reviews

R219_02 Online forums

R219_03 Print media (e.g., Newspapers, Magazines, etc.)

R219_04 Friends and Family

R219_05 Online news sites

R219_06 Other (please specify)

1 = Not checked

2 = Checked

R219_06a Other (please specify) (free text)

Free text

[R220] Multiple Choice

Education about Device D3

"Which of the following sources did you consult prior to purchasing a %device%?"

R220 Education about Device D3: Residual option (negative) or number of selected options

Integer

R220_01 Online reviews

R220_02 Online forums

R220_03 Print media (e.g., Newspapers, Magazines, etc.)

R220_04 Friends and Family

R220_05 Online news sites

R220_06 Other (please specify)

1 = Not checked

2 = Checked

R220_06a Other (please specify) (free text)

Free text

[R221] Multiple Choice

Education about Device D3_N

"Which of the following sources would you consult prior to purchasing a %device%?"

R221 Education about Device D3_N: Residual option (negative) or number of selected options

Integer

R221_01 Online reviews

R221_02 Online forums

R221_03 Print media (e.g., Newspapers, Magazines, etc.)

R221_04 Friends and Family

R221_05 Online news sites

R221_06 Other (please specify)

1 = Not checked

2 = Checked

R221_06a Other (please specify) (free text)

Free text

[R222] Suggesting Text Input
 Use Case {open} D1
 "Why did you purchase a %device%?"

R222 Use Case {open} D1
 -2 = other text response
 -9 = Not answered

R222s Use Case {open} D1 (free text)
 Free text

[R223] Suggesting Text Input
 Use Case {open} D2
 "Why did you purchase a %device%?"

R223 Use Case {open} D2
 -2 = other text response
 -9 = Not answered

R223s Use Case {open} D2 (free text)
 Free text

[R224] Suggesting Text Input
 Use Case {open} D3
 "Why did you purchase a %device%?"

R224 Use Case {open} D3
 -2 = other text response
 -9 = Not answered

R224s Use Case {open} D3 (free text)
 Free text

[R225] Multiple Choice
 Hear about device D1
 "How did you hear about the %device% you purchased? (Select all that apply.)"

R225 Hear about device D1: Residual option (negative) or number of selected options

Integer

R225_01 TV

R225_02 Internet

R225_03 Print media (e.g., Newspapers, Magazines, etc.)

R225_04 Friends and Family

R225_06 Brick-and-mortar store

R225_09 Trade show

R225_10 Other (please specify)

1 = Not checked

2 = Checked

R225_10a Other (please specify) (free text)

Free text

[R226] Multiple Choice
 Hear about device D2
 "How did you hear about the %device% you purchased? (Select all that apply.)"

R226 Hear about device D2: Residual option (negative) or number of selected options

Integer

R226_01 TV

R226_02 Internet

R226_03 Print media (e.g., Newspapers, Magazines, etc.)

R226_04 Friends and Family

R226_06 Brick-and-mortar store

R226_09 Trade show

R226_10 Other (please specify)

1 = Not checked

2 = Checked

R226_10a Other (please specify) (free text)

Free text

[R227] Multiple Choice

Hear about device D3

"How did you hear about the %device% you purchased? (Select all that apply.)"

R227 Hear about device D3: Residual option (negative) or number of selected options

Integer

R227_01 TV**R227_02** Internet**R227_03** Print media (e.g., Newspapers, Magazines, etc.)**R227_04** Friends and Family**R227_06** Brick-and-mortar store**R227_09** Trade show**R227_10** Other (please specify)

1 = Not checked

2 = Checked

R227_10a Other (please specify) (free text)

Free text

[R228] Multiple Choice

Hear about device D1_N

"Please select any of the following sources via which you have heard of a %device%: (Select all that apply.)"

R228 Hear about device D1_N: Residual option (negative) or number of selected options

Integer

R228_01 TV**R228_02** Internet**R228_03** Print media (e.g., Newspapers, Magazines, etc.)**R228_04** Friends and Family**R228_06** Brick-and-mortar store**R228_09** Trade show**R228_10** Other (please specify)

1 = Not checked

2 = Checked

R228_10a Other (please specify) (free text)

Free text

[R229] Multiple Choice

Hear about device D2_N

"Please select any of the following sources via which you have heard of a %device%: (Select all that apply.)"

R229 Hear about device D2_N: Residual option (negative) or number of selected options

Integer

R229_01 TV**R229_02** Internet**R229_03** Print media (e.g., Newspapers, Magazines, etc.)**R229_04** Friends and Family**R229_06** Brick-and-mortar store**R229_09** Trade show**R229_10** Other (please specify)

1 = Not checked

2 = Checked

R229_10a Other (please specify) (free text)

Free text

[R230] Multiple Choice**Hear about device D3_N**

"Please select any of the following sources via which you have heard of a %device%: (Select all that apply.)"

R230 Hear about device D3_N: Residual option (negative) or number of selected options

Integer

R230_01 TV**R230_02 Internet****R230_03 Print media (e.g., Newspapers, Magazines, etc.)****R230_04 Friends and Family****R230_06 Brick-and-mortar store****R230_09 Trade show****R230_10 Other (please specify)**

1 = Not checked

2 = Checked

R230_10a Other (please specify) (free text)

Free text

[R231] Internal Variables

Answers R101

R231_01 answers of question R101

Text/string

[R232] Internal Variables

VR101_Devices

R232_01 Device one**R232_02 Device two****R232_03 Device three**

Text/string

[R233] Internal Variables

VR101_Devices_ownership

R233_01 Device one ownership**R233_02 Device two ownership****R233_03 Device three ownership**

Text/string

Section R3: Device Security**[R301] Scale (fully labeled)**

Static Security D1

"Please indicate your level of agreement with the following statements as they pertain to your %device%."

R301_01 I believe my %device% possesses adequate security measures to protect my data.**R301_02 My %device% has adequate security measures to prevent third-party access to my data.**

1 = Strongly Disagree

2 =

3 =

4 = Neither Disagree Nor Agree

5 =

6 =

7 = Strongly Agree

-9 = Not answered

[R302] Scale (fully labeled)

Static Security D2

"Please indicate your level of agreement with the following statements as they pertain to your %device%."

R302_01 I believe my %device% possesses adequate security measures to protect my data.**R302_02 My %device% has adequate security measures to prevent third-party access to my data.**

1 = Strongly Disagree

2 =

3 =

4 = Neither Disagree Nor Agree

5 =

6 =

7 = Strongly Agree

-9 = Not answered

[R303] Scale (fully labeled)

Static Security D3

"Please indicate your level of agreement with the following statements as they pertain to your %device%."

R303_01 I believe my %device% possesses adequate security measures to protect my data.**R303_02** My %device% has adequate security measures to prevent third-party access to my data.

1 = Strongly Disagree

2 =

3 =

4 = Neither Disagree Nor Agree

5 =

6 =

7 = Strongly Agree

-9 = Not answered

[R304] Selection

Device Research D1

"Do you continue to educate yourself about the %device% after purchase (e.g., via tutorials)?"

R304 Device Research D1

1 = Yes

2 = No

-9 = Not answered

R304_01 Yes

Free text

[R305] Selection

Device Research D2

"Do you continue to educate yourself about the %device% after purchase (e.g., via tutorials)?"

R305 Device Research D2

1 = Yes

2 = No

-9 = Not answered

R305_01 Yes

Free text

[R306] Selection

Device Research D3

"Do you continue to educate yourself about the %device% after purchase (e.g., via tutorials)?"

R306 Device Research D3

1 = Yes

2 = No

-9 = Not answered

R306_01 Yes

Free text

Section R4: Device Lifecycle**[R401] Selection**

Purchase date D1

"How long ago was the %device% purchased?"

R401 Purchase date D1

1 = 0-6 months

2 = 7-12 months

3 = 13-24 months

4 = 25-36 months

5 = 37-48 months

6 = More than 48 months

-9 = Not answered

[R402] Selection

Purchase date D2

"How long ago was the %device% purchased?"

R402 Purchase date D2

1 = 0-6 months

2 = 7-12 months

3 = 13-24 months

4 = 25-36 months

5 = 37-48 months

6 = More than 48 months

-9 = Not answered

[R403] Selection
 Purchase date D3
 "How long ago was the %device% purchased?"

R403 Purchase date D3

- 1 = 0-6 months
- 2 = 7-12 months
- 3 = 13-24 months
- 4 = 25-36 months
- 5 = 37-48 months
- 6 = More than 48 months
- 9 = Not answered

Section R5: Device Usage Information

[R501] Selection
 Usage # D1
 "On average, how often do you use the %device% each day?"

R501 Usage # D1

- 1 = 0 times
- 2 = 1-5 times
- 3 = 6-10 times
- 4 = 11-20 times
- 5 = 21-30 times
- 6 = 30+ times
- 7 = Don't know
- 9 = Not answered

[R502] Selection
 Always on D1
 "Is the %device% always on?"

R502 Always on D1

- 1 = Yes
- 2 = No
- 3 = Don't know
- 9 = Not answered

[R503] Selection
 Usage # D2
 "On average, how often do you use the %device% each day?"

R503 Usage # D2

- 1 = 0 times
- 2 = 1-5 times
- 3 = 6-10 times
- 4 = 11-20 times
- 5 = 21-30 times
- 6 = 30+ times
- 7 = Don't know
- 9 = Not answered

[R504] Selection
 Always on D2
 "Is the %device% always on?"

R504 Always on D2

- 1 = Yes
- 2 = No
- 3 = Don't know
- 9 = Not answered

[R505] Selection
 Usage # D3
 "On average, how often do you use the %device% each day?"

R505 Usage # D3

- 1 = 0 times
- 2 = 1-5 times
- 3 = 6-10 times
- 4 = 11-20 times
- 5 = 21-30 times
- 6 = 30+ times
- 7 = Don't know
- 9 = Not answered

[R506] Selection
Always on D3
"Is the %device% always on?"

R506 Always on D3

- 1 = Yes
- 2 = No
- 3 = Don't know
- 9 = Not answered

[R507] Selection
Disabled feature D1
"Have you disabled any of the features of the %device%?"

R507 Disabled feature D1

- 1 = Yes
- 2 = No
- 9 = Not answered

R507_01 Yes

Free text

[R508] Text Input
Disabled feature D1_N
"Which feature(s) of the %device%, if any, would you disable?"

R508_01 [01]

Free text

[R509] Multiple Choice
Disabled feature D1_N_1
"If you mentioned disabling any feature(s) above, why did you disable the above feature(s)? (Select all that ...)"

R509 Disabled feature D1_N_1: Residual option (negative) or number of selected options

Integer

R509_01 Conserving battery life

R509_02 Reducing power consumption

R509_03 Protecting my privacy

R509_04 Reducing security risks

R509_05 Enhancing the user experience

R509_06 Turning off unneeded or unused feature

R509_07 Other (please specify)

- 1 = Not checked
- 2 = Checked

R509_07a Other (please specify) (free text)

Free text

[R542] Multiple Choice
Disabled feature D1_N_1_N
"If you mentioned disabling any feature(s) above, why would you disable the above feature(s)? (Select all tha...)"

R542 Disabled feature D1_N_1_N: Residual option (negative) or number of selected options

Integer

R542_01 Conserving battery life

R542_02 Reducing power consumption

R542_03 Protecting my privacy

R542_04 Reducing security risks

R542_05 Enhancing the user experience

R542_06 Turning off unneeded or unused feature

R542_07 Other (please specify)

- 1 = Not checked
- 2 = Checked

R542_07a Other (please specify) (free text)

Free text

[R510] Selection
 Disabled feature D2
 "Have you disabled any of the features of the %device%?"

R510 Disabled feature D2

1 = Yes
 2 = No
 -9 = Not answered

R510_01 Yes

Free text

[R511] Text Input
 Disabled feature D2_N
 "Which feature(s) of the %device%, if any, would you disable?"

R511_01 [01]

Free text

[R512] Multiple Choice
 Disabled feature D2_N_1
 "If you mentioned disabling any feature(s) above, why did you disable the above feature(s)? (Select all that ...)"

R512 Disabled feature D2_N_1: Residual option (negative) or number of selected options

Integer

R512_01 Conserving battery life

R512_02 Reducing power consumption

R512_03 Protecting my privacy

R512_04 Reducing security risks

R512_05 Enhancing the user experience

R512_06 Turning off unneeded or unused feature

R512_07 Other (please specify)

1 = Not checked
 2 = Checked

R512_07a Other (please specify) (free text)

Free text

[R540] Multiple Choice
 Disabled feature D2_N_1_N
 "If you mentioned disabling any feature(s) above, why would you disable the above feature(s)? (Select all tha...)"

R540 Disabled feature D2_N_1_N: Residual option (negative) or number of selected options

Integer

R540_01 Conserving battery life

R540_02 Reducing power consumption

R540_03 Protecting my privacy

R540_04 Reducing security risks

R540_05 Enhancing the user experience

R540_06 Turning off unneeded or unused feature

R540_07 Other (please specify)

1 = Not checked
 2 = Checked

R540_07a Other (please specify) (free text)

Free text

[R513] Selection
 Disabled feature D3
 "Have you disabled any of the features of the %device%?"

R513 Disabled feature D3

1 = Yes
 2 = No
 -9 = Not answered

R513_01 Yes

Free text

[R514] Text Input
 Disabled feature D3_N
 "Which feature(s) of the %device%, if any, would you disable?"

R514_01 [01]
 Free text

[R515] Multiple Choice
 Disabled feature D3_N_1
 "If you mentioned disabling any feature(s) above, why did you disable the above feature(s)? (Select all that ...)"

R515 Disabled feature D3_N_1: Residual option (negative) or number of selected options

Integer

R515_01 Conserving battery life

R515_02 Reducing power consumption

R515_03 Protecting my privacy

R515_04 Reducing security risks

R515_05 Enhancing the user experience

R515_06 Turning off unneeded or unused feature

R515_07 Other (please specify)

1 = Not checked

2 = Checked

R515_07a Other (please specify) (free text)

Free text

[R541] Multiple Choice
 Disabled feature D3_N_1_N
 "If you mentioned disabling any feature(s) above, why would you disable the above feature(s)? (Select all tha...)"

R541 Disabled feature D3_N_1_N: Residual option (negative) or number of selected options

Integer

R541_01 Conserving battery life

R541_02 Reducing power consumption

R541_03 Protecting my privacy

R541_04 Reducing security risks

R541_05 Enhancing the user experience

R541_06 Turning off unneeded or unused feature

R541_07 Other (please specify)

1 = Not checked

2 = Checked

R541_07a Other (please specify) (free text)

Free text

[R516] Multiple Choice
 Device Data Type D1
 "Which types of data do you believe the %device% uses? (Select all that apply.)"

R516 Device Data Type D1: Residual option (negative) or number of selected options

Integer

R516_01 Location

R516_02 Routines

R516_03 Speech (via microphone)

R516_04 Video (via camera)

R516_10 Still images (via camera)

R516_11 Environmental parameters (e.g., temperature, humidity, noise levels, etc.)

R516_05 Internet activity

R516_06 Online purchases

R516_14 Offline purchases

R516_09 Power consumption

R516_12 Activities and gestures

R516_13 Other (please specify:)

1 = Not checked

2 = Checked

R516_13a Other (please specify:) (free text)

Free text

[R517] Multiple Choice**Device Data Type D1_N****"Which types of data do you believe the %device% would use? (Select all that apply.)"****R517 Device Data Type D1_N: Residual option (negative) or number of selected options**

Integer

R517_01 Location**R517_02 Routines****R517_03 Speech (via microphone)****R517_04 Video (via camera)****R517_10 Still images (via camera)****R517_11 Environmental parameters (e.g., temperature, humidity, noise levels, etc.)****R517_05 Internet activity****R517_06 Online purchases****R517_14 Offline purchases****R517_09 Power consumption****R517_12 Activities and gestures****R517_13 Other (please specify:)**

1 = Not checked

2 = Checked

R517_13a Other (please specify:) (free text)

Free text

[R518] Multiple Choice**Device Data Type D2****"Which types of data do you believe the %device% uses? (Select all that apply.)"****R518 Device Data Type D2: Residual option (negative) or number of selected options**

Integer

R518_01 Location**R518_02 Routines****R518_03 Speech (via microphone)****R518_04 Video (via camera)****R518_10 Still images (via camera)****R518_11 Environmental parameters (e.g., temperature, humidity, noise levels, etc.)****R518_05 Internet activity****R518_06 Online purchases****R518_14 Offline purchases****R518_09 Power consumption****R518_12 Activities and gestures****R518_13 Other (please specify:)**

1 = Not checked

2 = Checked

R518_13a Other (please specify:) (free text)

Free text

[R519] Multiple Choice
Device Data Type D2_N

"Which types of data do you believe the %device% would use? (Select all that apply.)"

R519 Device Data Type D2_N: Residual option (negative) or number of selected options
 Integer

R519_01 Location

R519_02 Routines

R519_03 Speech (via microphone)

R519_04 Video (via camera)

R519_10 Still images (via camera)

R519_11 Environmental parameters (e.g., temperature, humidity, noise levels, etc.)

R519_05 Internet activity

R519_06 Online purchases

R519_14 Offline purchases

R519_09 Power consumption

R519_12 Activities and gestures

R519_13 Other (please specify:)

1 = Not checked

2 = Checked

R519_13a Other (please specify:) (free text)

Free text

[R520] Multiple Choice

Device Data Type D3

"Which types of data do you believe the %device% uses? (Select all that apply.)"

R520 Device Data Type D3: Residual option (negative) or number of selected options

Integer

R520_01 Location

R520_02 Routines

R520_03 Speech (via microphone)

R520_04 Video (via camera)

R520_10 Still images (via camera)

R520_11 Environmental parameters (e.g., temperature, humidity, noise levels, etc.)

R520_05 Internet activity

R520_06 Online purchases

R520_14 Offline purchases

R520_09 Power consumption

R520_12 Activities and gestures

R520_13 Other (please specify:)

1 = Not checked

2 = Checked

R520_13a Other (please specify:) (free text)

Free text

[R521] Multiple Choice
Device Data Type D3_N

"Which types of data do you believe the %device% would use? (Select all that apply.)"

R521 Device Data Type D3_N: Residual option (negative) or number of selected options

Integer

R521_01 Location

R521_02 Routines

R521_03 Speech (via microphone)

R521_04 Video (via camera)

R521_10 Still images (via camera)

R521_11 Environmental parameters (e.g., temperature, humidity, noise levels, etc.)

R521_05 Internet activity

R521_06 Online purchases

R521_14 Offline purchases

R521_09 Power consumption

R521_12 Activities and gestures

R521_13 Other (please specify:)

1 = Not checked

2 = Checked

R521_13a Other (please specify:) (free text)

Free text

[R522] Multiple Choice

Device Data Storage D1

"Where do you believe the %device% stores data? (Select all that apply.)"

R522 Device Data Storage D1: Residual option (negative) or number of selected options

Integer

R522_01 On the Internet router in the home

R522_02 On a cloud platform

R522_03 Locally on the device itself

R522_04 Servers of the Internet Service Provider (ISP)

R522_06 Servers of the device manufacturer

R522_08 Servers of third parties

R522_07 Other (please specify:)

1 = Not checked

2 = Checked

R522_07a Other (please specify:) (free text)

Free text

[R523] Multiple Choice

Device Data Storage D1_N

"Where do you believe a %device% stores data? (Select all that apply.)"

R523 Device Data Storage D1_N: Residual option (negative) or number of selected options

Integer

R523_01 On the Internet router in the home

R523_02 On a cloud platform

R523_03 Locally on the device itself

R523_04 Servers of the Internet Service Provider (ISP)

R523_05 Servers of the device manufacturer

R523_07 Servers of third parties

R523_06 Other (please specify:)

1 = Not checked

2 = Checked

R523_06a Other (please specify:) (free text)

Free text

[R524] Multiple Choice**Device Data Storage D2****"Where do you believe the %device% stores data? (Select all that apply.)"****R524 Device Data Storage D2: Residual option (negative) or number of selected options**

Integer

R524_01 On the Internet router in the home**R524_02** On a cloud platform**R524_03** Locally on the device itself**R524_04** Servers of the Internet Service Provider (ISP)**R524_05** Servers of the device manufacturer**R524_07** Servers of third parties**R524_06 Other (please specify)**

1 = Not checked

2 = Checked

R524_06a Other (please specify) (free text)

Free text

[R525] Multiple Choice**Device Data Storage D2_N****"Where do you believe a %device% stores data? (Select all that apply.)"****R525 Device Data Storage D2_N: Residual option (negative) or number of selected options**

Integer

R525_01 On the Internet router in the home**R525_02** On a cloud platform**R525_03** Locally on the device itself**R525_04** Servers of the Internet Service Provider (ISP)**R525_05** Servers of the device manufacturer**R525_07** Servers of third parties**R525_06 Other (please specify)**

1 = Not checked

2 = Checked

R525_06a Other (please specify) (free text)

Free text

[R526] Multiple Choice**Device Data Storage D3****"Where do you believe the %device% stores data? (Select all that apply.)"****R526 Device Data Storage D3: Residual option (negative) or number of selected options**

Integer

R526_01 On the Internet router in the home**R526_02** On a cloud platform**R526_03** Locally on the device itself**R526_04** Servers of the Internet Service Provider (ISP)**R526_05** Servers of the device manufacturer**R526_07** Servers of third parties**R526_06 Other (please specify)**

1 = Not checked

2 = Checked

R526_06a Other (please specify) (free text)

Free text

[R527] Multiple Choice**Device Data Storage D3_N****"Where do you believe a %device% stores data? (Select all that apply.)"****R527 Device Data Storage D3_N:** Residual option (negative) or number of selected options

Integer

R527_01 On the Internet router in the home**R527_02** On a cloud platform**R527_03** Locally on the device itself**R527_04** Servers of the Internet Service Provider (ISP)**R527_05** Servers of the device manufacturer**R527_07** Servers of third parties**R527_06** Other (please specify)

1 = Not checked

2 = Checked

R527_06a Other (please specify) (free text)

Free text

[R528] Multiple Choice**Device Location D1****"Where in your home is the %device% located? (Select all that apply.)"****R528 Device Location D1:** Residual option (negative) or number of selected options

Integer

R528_14 Attic**R528_01** Balcony**R528_02** Basement**R528_03** Children's room**R528_04** Dining room**R528_05** Garage**R528_06** Guest bedroom**R528_07** Hallway**R528_08** Kitchen**R528_09** Living room**R528_10** Master bedroom**R528_11** Patio**R528_12** Yard**R528_13** Other (please specify)

1 = Not checked

2 = Checked

R528_13a Other (please specify) (free text)

Free text

[R529] Multiple Choice**Device Location D1_N**

"Where in your home would the %device% be located? (Select all that apply.)"

R529 Device Location D1_N: Residual option (negative) or number of selected options

Integer

R529_14 Attic**R529_01 Balcony****R529_02 Basement****R529_03 Children's room****R529_04 Dining room****R529_05 Garage****R529_06 Guest bedroom****R529_07 Hallway****R529_08 Kitchen****R529_09 Living room****R529_10 Master bedroom****R529_11 Patio****R529_12 Yard****R529_13 Other (please specify)**

1 = Not checked

2 = Checked

R529_13a Other (please specify) (free text)

Free text

[R530] Multiple Choice**Device Location D2**

"Where in your home is the %device% located? (Select all that apply.)"

R530 Device Location D2: Residual option (negative) or number of selected options

Integer

R530_14 Attic**R530_01 Balcony****R530_02 Basement****R530_03 Children's room****R530_04 Dining room****R530_05 Garage****R530_06 Guest bedroom****R530_07 Hallway****R530_08 Kitchen****R530_09 Living room****R530_10 Master bedroom****R530_11 Patio****R530_12 Yard****R530_13 Other (please specify)**

1 = Not checked

2 = Checked

R530_13a Other (please specify) (free text)

Free text

[R531] Multiple Choice

Device Location D2_N

"Where in your home would the %device% be located? (Select all that apply.)"

R531 Device Location D2_N: Residual option (negative) or number of selected options

Integer

R531_14 Attic**R531_01** Balcony**R531_02** Basement**R531_03** Children's room**R531_04** Dining room**R531_05** Garage**R531_06** Guest bedroom**R531_07** Hallway**R531_08** Kitchen**R531_09** Living room**R531_10** Master bedroom**R531_11** Patio**R531_12** Yard**R531_13** Other (please specify)

1 = Not checked

2 = Checked

R531_13a Other (please specify) (free text)

Free text

[R532] Multiple Choice

Device Location D3

"Where in your home is the %device% located? (Select all that apply.)"

R532 Device Location D3: Residual option (negative) or number of selected options

Integer

R532_14 Attic**R532_01** Balcony**R532_02** Basement**R532_03** Children's room**R532_04** Dining room**R532_05** Garage**R532_06** Guest bedroom**R532_07** Hallway**R532_08** Kitchen**R532_09** Living room**R532_10** Master bedroom**R532_11** Patio**R532_12** Yard**R532_13** Other (please specify)

1 = Not checked

2 = Checked

R532_13a Other (please specify) (free text)

Free text

[R533] Multiple Choice**Device Location D3_N**

"Where in your home would the %device% be located? (Select all that apply.)"

R533 Device Location D3_N: Residual option (negative) or number of selected options

Integer

R533_14 Attic**R533_01 Balcony****R533_02 Basement****R533_03 Children's room****R533_04 Dining room****R533_05 Garage****R533_06 Guest bedroom****R533_07 Hallway****R533_08 Kitchen****R533_09 Living room****R533_10 Master bedroom****R533_11 Patio****R533_12 Yard****R533_13 Other (please specify)**

1 = Not checked

2 = Checked

R533_13a Other (please specify) (free text)

Free text

[R534] Multiple Choice**Human interaction D1**

"How do you interact with the %device%?"

R534 Human interaction D1: Residual option (negative) or number of selected options

Integer

R534_01 Voice Assistant**R534_02 App on my phone****R534_03 Physical buttons on the device****R534_04 Screen on the device****R534_05 Internet based service connected to the device****R534_06 Home Internet router****R534_09 Other (please specify)**

1 = Not checked

2 = Checked

R534_09a Other (please specify) (free text)

Free text

[R535] Multiple Choice**Human interaction D1_N**

"How would you interact with the %device%? (Select all that apply.)"

R535 Human interaction D1_N: Residual option (negative) or number of selected options

Integer

R535_01 Voice Assistant**R535_02 App on my phone****R535_03 Physical buttons on the device****R535_04 Screen on the device****R535_05 Internet based service connected to the device****R535_06 Home Internet router****R535_09 Other (please specify)**

1 = Not checked

2 = Checked

R535_09a Other (please specify) (free text)

Free text

[R536] Multiple Choice
 Human interaction D2
 "How do you interact with the %device%?"

R536 Human interaction D2: Residual option (negative) or number of selected options

Integer

R536_01 Voice Assistant

R536_02 App on my phone

R536_03 Physical buttons on the device

R536_04 Screen on the device

R536_05 Internet based service connected to the device

R536_06 Home Internet router

R536_07 Other (please specify)

1 = Not checked

2 = Checked

R536_07a Other (please specify) (free text)

Free text

[R537] Multiple Choice
 Human interaction D2_N
 "How would you interact with the %device%? (Select all that apply.)"

R537 Human interaction D2_N: Residual option (negative) or number of selected options

Integer

R537_01 Voice Assistant

R537_02 App on my phone

R537_03 Physical buttons on the device

R537_04 Screen on the device

R537_05 Internet based service connected to the device

R537_06 Home Internet router

R537_07 Other (please specify)

1 = Not checked

2 = Checked

R537_07a Other (please specify) (free text)

Free text

[R538] Multiple Choice
 Human interaction D3
 "How do you interact with the %device%?"

R538 Human interaction D3: Residual option (negative) or number of selected options

Integer

R538_01 Voice Assistant

R538_02 App on my phone

R538_03 Physical buttons on the device

R538_04 Screen on the device

R538_05 Internet based service connected to the device

R538_06 Home Internet router

R538_07 Other (please specify)

1 = Not checked

2 = Checked

R538_07a Other (please specify) (free text)

Free text

[R539] Multiple Choice
Human interaction D3_N

"How would you interact with the %device%? (Select all that apply.)"

R539 Human interaction D3_N: Residual option (negative) or number of selected options

Integer

R539_01 Voice Assistant

R539_02 App on my phone

R539_03 Physical buttons on the device

R539_04 Screen on the device

R539_05 Internet based service connected to the device

R539_06 Home Internet router

R539_07 Other (please specify)

1 = Not checked

2 = Checked

R539_07a Other (please specify) (free text)

Free text

Section A1: Data stance

[A101] Scale (fully labeled)

Status Quo

"Please indicate the extent to which you agree with the following statements:"

A101_01 I am aware of the kinds of data collected by my Smart Home device.

A101_02 Smart Home device data has monetary value.

A101_03 Smart Home device data is collected by companies.

A101_04 Smart Home device data is gathered regularly by a Smart Home device.

A101_05 Smart Home device data is sent continuously over the Internet.

A101_06 Smart Home device data is a resource for corporations.

A101_07 Smart Home device data is stored remotely.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

[A102] Scale (fully labeled)

Awareness

A102_01 I am aware of where my Smart Home device stores data.

A102_02 I am aware that my Smart Home device data is analyzed to know about my preferences and practices.

A102_03 I am aware of the parties who analyze my Smart Home device data.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

[A103] Scale (fully labeled)

Preference

A103_01 I would like my Smart Home device data to be stored in my home.

A103_02 I would like my Smart Home device data to be stored outside my home.

A103_03 I would like my Smart Home device data to be processed and analyzed within my home.

A103_04 I would like my Smart Home device data to be processed and analyzed outside of my home.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

Section A2: Responsibility stance

[A204] Scale (fully labeled)

Manufacturer responsibility

"Between yourself and the manufacturer of a typical Smart Home device, please indicate who you believe is more responsible."

A204_01 Keeping the Smart Home device software up-to-date

A204_02 Ensuring my privacy

A204_03 Protecting my Smart Home ecosystem as a whole

A204_04 Keeping the Smart Home device secure

A204_05 Fixing a hardware failure

A204_06 Fixing a software failure

1 = Myself [1]

2 = [2]

3 = [3]

4 = Both equally [4]

5 = [5]

6 = [6]

7 = Manufacturer [7]

-9 = Not answered

[A206] Scale (fully labeled)

Statement agreement

"Indicate the extent to which you agree with the following statements:"

A206_01 My Smart Home device should update itself.

A206_02 The manufacturer of my Smart Home device should provide regular security updates.

A206_03 The servers of my Smart Home device manufacturer should be equipped with adequate data security.

A206_04 The manufacturer of my Smart Home device should remotely manage my Smart Home device.

A206_05 I regularly make sure that my Smart Home devices are kept up-to date.

A206_06 I receive a timely notice when the manufacturer stops supporting my Smart Home device.

A206_07 I am unsure if my Smart Home device receives security updates.

A206_08 My Smart Home device should receive updates as long as I use it.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Disagree Nor Agree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

Section A3: Smarthome stance

[A302] Multiple Choice

Feature benefit

"In your opinion, which of the household devices listed below would benefit from Smart capabilities?"

A302 Feature benefit: Residual option (negative) or number of selected options

Integer

A302_01 Coffee Maker**A302_02** Dishwasher**A302_03** Door Lock**A302_04** Doorbell**A302_05** Electricity Meter**A302_06** Electrical Outlet**A302_07** Fridge**A302_08** Gardening Equipment**A302_09** Heating/Cooling System**A302_10** Home Monitoring System**A302_11** Lightbulb**A302_12** Oven**A302_13** Speaker**A302_14** Stove**A302_15** TV**A302_16** Thermostat**A302_17** Toy**A302_18** Vacuum Cleaner**A302_19** Washing Machine**A302_20** Other (please specify)

1 = Not checked

2 = Checked

A302_20a Other (please specify) (free text)

Free text

[A303] Multiple Choice

Problematic feature

"In your opinion, which of household devices listed below would present a security risk if they were equipped..."

A303 Problematic feature: Residual option (negative) or number of selected options

Integer

A303_01 Coffee Maker**A303_02** Dishwasher**A303_03** Door Lock**A303_04** Doorbell**A303_05** Electricity Meter**A303_06** Electrical Outlet**A303_07** Fridge**A303_08** Gardening Equipment**A303_09** Heating/Cooling System**A303_10** Home Monitoring System**A303_11** Lightbulb**A303_12** Oven**A303_13** Speaker**A303_14** Stove**A303_15** TV**A303_16** Thermostat**A303_17** Toy**A303_18** Vacuum Cleaner**A303_19** Washing Machine**A303_20** Other (please specify)

1 = Not checked

2 = Checked

A303_20a Other (please specify) (free text)

Free text

[A305] Scale (fully labeled)

Perceived purpose

"Please indicate the extent to which you believe the following functionalities add Smart capabilities to a de..."

A305_01 Playing media content (e.g., videos, music, etc.)**A305_03** Controlling appliances (e.g., lights, coffee maker, stove, oven, etc.)**A305_04** Adjusting internal climate (e.g., temperature, air quality, etc.)**A305_05** Managing power consumption**A305_06** Detecting malfunctions**A305_07** Monitoring health**A305_08** Improving safety**A305_09** Enabling more communication modes (voice, text, email, etc.)

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

[A306] Text Input

Perceived purpose Other

"Other (please specify):"

A306_01 [01]

Free text

[A307] Scale (fully labeled)

Perceived benefits

"Please indicate the extent to which you find the following factors to be benefits of Smart Home technologies:"

A307_01 Saving money**A307_02** Saving energy**A307_03** Increasing convenience**A307_04** Enhancing leisure activities**A307_05** Providing peace of mind**A307_06** Providing comfort**A307_07** Increasing safety**A307_08** Providing care**A307_09** Improving quality of life**A307_10** Increasing property value

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

[A308] Text Input

Perceived benefits Other

"Other (please specify):"

A308_01 [01]

Free text

[A309] Scale (fully labeled)

Topic familiarity

"Please indicate the extent to which you use Smart Home devices for the following purposes:"

A309_01 Controlling appliances (e.g., lights, coffee maker, stove, oven, etc.)**A309_02** Controlling home monitoring systems**A309_03** Communicating with the inside of the home (e.g. calling Smart Home devices within the home)**A309_04** Communicating with the outside of the home (e.g. using a video doorbell or home monitoring system installed on the outside of the home)**A309_05** Automating tasks

1 = Not At All [1]

2 = [2]

3 = [3]

4 = [4]

5 = [5]

6 = [6]

7 = All The Time [7]

-9 = Not answered

[A311] Text Input

Topic familiarity Other

"Other (please specify):"

A311_01 [01]

Free text

[A310] Scale (fully labeled)

Overall_Familiarity_1

"How would you rate your experience in using Smart Home devices?"

A310_01 [No Description] 01

1 = Very Unfamiliar [1]

2 = [2]

3 = [3]

4 = Neither Familiar Nor Unfamiliar [4]

5 = [5]

6 = [6]

7 = Very Familiar [7]

-9 = Not answered

[A312] Scale (fully labeled)

Overall_Familiarity_2

"How would you rate your overall knowledge of Smart Home devices?"

A312_01 [No Description] 01

1 = Very Unfamiliar [1]

2 = [2]

3 = [3]

4 = Neither Familiar Nor Unfamiliar [4]

5 = [5]

6 = [6]

7 = Very Familiar [7]

-9 = Not answered

Section E2: Fears & concerns

[E201] Scale (fully labeled)

Device risk

"Please indicate how you would rate the privacy risks for each of the following devices on a scale of 1 to 7."

E201_01 Smart Coffee Maker**E201_02** Smart Dishwasher**E201_03** Smart Door Lock**E201_04** Smart Doorbell**E201_05** Smart Electricity Meter**E201_06** Smart Electrical Outlet**E201_07** Smart Fridge**E201_08** Smart Gardening Equipment**E201_09** Smart Heating/Cooling System**E201_10** Smart Home Monitoring System**E201_11** Smart Lightbulb**E201_12** Smart Oven**E201_13** Smart Robot**E201_14** Smart Speaker**E201_15** Smart Stove**E201_16** Smart TV**E201_17** Smart Thermostat**E201_18** Smart Toy**E201_19** Smart Vacuum Cleaner**E201_20** Smart Washing Machine

1 = Lowest Risk [1]

2 = [2]

3 = [3]

4 = [4]

5 = [5]

6 = [6]

7 = Highest Risk [7]

-9 = Not answered

[E203] Multiple Choice

No integration

"I may decide NOT to own Smart Home devices for my home because: (Select all that apply.)"

E203 No integration: Residual option (negative) or number of selected options

Integer

E203_01 I wish to preserve the privacy of the adults in my household.**E203_02** I wish to preserve the privacy of my children.**E203_03** I wish to preserve the privacy of my guests.**E203_04** I wish to preserve the privacy of my pets.**E203_05** I perceive no benefit from using Smart Home devices.**E203_06** I find Smart Home devices too expensive.**E203_07** I do not have a domestic Internet connection suitable for the use of Smart Home devices.**E203_08** Other (please specify)

1 = Not checked

2 = Checked

E203_08a Other (please specify) (free text)

Free text

[E202] Text Input

Device risk Other

"In your opinion, what risks, if any, are posed by the use of Smart Home devices?"

E202_01 [01]

Free text

[E204] Scale (fully labeled)

Usage location

"For each of the following scenarios, indicate your level of comfort for controlling a Smart Home device on a..."

E204_01 While you are at home.**E204_02** While you are away from home.**E204_03** From someone else's device or equipment.**E204_04** From your own device or equipment.

1 = Extremely Uncomfortable [1]

2 = [2]

3 = [3]

4 = Neither Uncomfortable Nor Comfortable [4]

5 = [5]

6 = [6]

7 = Extremely Comfortable [7]

-9 = Not answered

[E205] Scale (fully labeled)

Usage type

"For each of the following methods, indicate your level of comfort for using it to interact with a Smart Home..."

E205_01 Voice commands via a Smart Speaker**E205_02** Voice commands via a Smartphone Voice Assistant**E205_03** Smartphone App for the Device**E205_04** Smartphone Widgets or Shortcuts**E205_05** Sensors inside the Home (e.g., Motion Sensors, Light Sensors, etc.)**E205_06** Sensors outside the Home (e.g., Motion Sensors, Light Sensors, etc.)**E205_07** Automatic Operation based on Device Programming

1 = Extremely Uncomfortable [1]

2 = [2]

3 = [3]

4 = Neither Uncomfortable Nor Comfortable [4]

5 = [5]

6 = [6]

7 = Extremely Comfortable [7]

-9 = Not answered

[E206] Text Input

Usage type other

E206_01 Other (please specify)

Free text

Section HP: High-level purchase decision**[HP01] Multiple Choice**

Pre-purchase consultation

"Which of the following sources would you consult prior to purchasing a Smart Home device? (Select all that apply)"

HP01 Pre-purchase consultation: Residual option (negative) or number of selected options

Integer

HP01_01 Friends and Family**HP01_02** Internet message boards**HP01_03** Print media (e.g., Newspapers, Magazines, etc.)**HP01_04** Online reviews**HP01_05** Other (please specify)

1 = Not checked

2 = Checked

HP01_05a Other (please specify) (free text)

Free text

[HP02] Scale (fully labeled)

Market tools

"Indicate the extent to which you agree with the following statements:"

HP02_01 Low prices**HP02_02** Bundled offers (e.g., including other devices with purchase of one or more devices)**HP02_03** Trials (e.g., 30-day free use of a service)**HP02_04** Periodic sales**HP02_05** Discounts (e.g., coupons)

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

[HP03] Scale (fully labeled)

Comfortableness

"Please indicate your level of comfort with using Smart Home devices purchased from each of the following sto..."

HP03_01 Budget online store from your own country**HP03_03** Online store from another country**HP03_02** Brick-and-mortar store other than that of the manufacturer (but not a general purpose or departmental store)**HP03_04** Brick-and-mortar general purpose or departmental store

1 = Extremely Uncomfortable [1]

2 = [2]

3 = [3]

4 = Neither Uncomfortable Nor Comfortable [4]

5 = [5]

6 = [6]

7 = Extremely Comfortable [7]

-9 = Not answered

Section LA: Legislation**[LA01]** Scale (fully labeled)

Legislatory Framework

"Please indicate the extent to which you agree with the following statements:"

LA01_01 unwanted access by third parties.**LA01_02** unwanted sharing with third parties.**LA01_03** unwanted processing and analysis by third parties.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

[LA02] Scale (fully labeled)

Prosecution

LA02_01 those who access my data without authorization.**LA02_02** those who share my data without permission.**LA02_03** those who do not employ proper safeguards for storing my data.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Agree Nor Disagree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

Section S1: Scales

[S101] Scale (fully labeled)

Sebis

"Please indicate your level of agreement with the following statements."

S101_01 I set my computer screen to lock automatically if I don't use it for a prolonged period of time.**S101_02** I use a password/passcode to unlock my laptop or tablet.**S101_03** I manually lock my computer screen when I step away from it.**S101_04** I use a PIN or passcode to unlock my mobile phone.**S101_05** When someone sends me a link, I open it without first verifying where it goes.**S101_06** I know what website I'm visiting based on its look and feel rather than by looking at the URL bar.**S101_07** I submit information to websites without first verifying that it will be sent securely (e.g., SSL, "https://, " a lock icon).**S101_13** Please choose Never.**S101_08** When browsing websites, I mouseover links to see where they go before clicking them.**S101_09** If I discover a security problem, I continue what I was doing because I assume someone else will fix it.**S101_10** When I'm prompted about a software update, I install it right away.**S101_11** I try to make sure that the programs I use are up-to-date.**S101_12** I verify that my anti-virus software has been regularly updating itself.

1 = Never [1]

2 = [2]

3 = [3]

4 = Sometimes [4]

5 = [5]

6 = [6]

7 = Always [7]

-9 = Not answered

[S102] Scale (fully labeled)

MUIPC

"Please indicate your level of agreement with the following statements."

S102_01 I believe that the location of my Smart Home device is monitored at least part of the time.**S102_02** I am concerned that Smart Home devices are collecting too much information about me.**S102_03** I am concerned that apps may monitor my activities on my Smart Home device.**S102_04** I feel that as a result of my using Smart Home devices, others know about me more than I am comfortable with.**S102_05** I feel that as a result of my using Smart Home devices, information about me that I consider private is now more readily available to others than I would want.**S102_06** I feel that as a result of my using Smart Home devices, information about me is out there that, if used, will invade my privacy.**S102_07** I am concerned that Smart Home devices may use my personal information for other purposes without notifying me or getting my authorization.**S102_08** When I give personal information to use Smart Home devices, I am concerned that apps may use my information for other purposes.**S102_09** I am concerned that Smart Home devices may share my personal information with other entities without getting my authorization.

1 = Strongly Disagree [1]

2 = [2]

3 = [3]

4 = Neither Disagree Nor Agree [4]

5 = [5]

6 = [6]

7 = Strongly Agree [7]

-9 = Not answered

Section A0: Demographics 2

[A001] Selection**Age**

"How old are you?"

A001 Age

- 1 = Below 18
- 2 = 18-25
- 3 = 26-35
- 4 = 36-45
- 5 = 46-55
- 6 = 56-65
- 7 = 66-75
- 8 = Older than 75
- 9 = Not answered

[A002] Selection**Gender**

"What is your gender?"

A002 Gender

- 1 = Male
- 2 = Female
- 3 = Non-binary
- 4 = Something else (please specify):
- 9 = Not answered

A002_04 Something else (please specify)

Free text

[A003] Selection**Education Level**

"What is the highest level of education you have completed? (If currently enrolled, indicate the highest degr...)"

A003 Education Level

- 1 = Less than high school
- 2 = High school diploma
- 3 = Vocational training
- 4 = Some college (no degree)
- 5 = Bachelor's degree (B.S., B.A., or other degree)
- 6 = Master's degree
- 7 = Doctoral degree
- 8 = Professional graduate degree (e.g., law or medical degree)
- 9 = Other (please specify):
- 9 = Not answered

A003_09 Other (please specify)

Free text

[A004] Selection**Children**

"How many children do you have?"

A004 Children

- 1 = 0
- 2 = 1
- 3 = 2
- 4 = 3
- 5 = 4
- 6 = 5
- 7 = 6 or more
- 9 = Not answered

[A005] Selection**Household size**

"How many people live in your household (including you) ?"

A005 Household size

- 1 = 1
- 2 = 2
- 3 = 3
- 4 = 4
- 5 = 5
- 6 = 6
- 7 = More than 6
- 9 = Not answered

[A006] Selection**Personal Income**

"What is your annual household income before taxes in US Dollars? (You may convert currencies here: www.xe.com/)"

A006 Personal Income

- 1 = Less than \$10,000
- 2 = \$10,000 to \$19,999
- 3 = \$20,000 to \$29,999
- 4 = \$30,000 to \$39,999
- 5 = \$40,000 to \$49,999
- 6 = \$50,000 to \$59,999
- 7 = \$60,000 to \$69,999
- 8 = \$70,000 to \$79,999
- 9 = \$80,000 to \$89,999
- 10 = \$90,000 to \$99,999
- 11 = Above \$100,000
- 12 = Prefer not to say
- 9 = Not answered

[A007] Selection**Property ownership**

"Do you own or rent your home?"

A007 Property ownership

- 1 = Own
- 2 = Rent
- 3 = Something else (please specify):
- 9 = Not answered

A007_03 Something else (please specify)

Free text

[A008] Text Input**ProlificID Completion**

"Finally, please enter your Prolific ID to complete your study participation."

A008_01 [01]

Free text

[A010] Multiple Choice**Ethnicity**

"What is your ethnic background? (Select all that apply.)"

A010 Ethnicity: Residual option (negative) or number of selected options

Integer

A010_01 American Indian or Native American

A010_02 Asian

A010_03 African

A010_04 Hawaiian or Other Pacific Islander

A010_05 White/Caucasian

A010_06 Hispanic

A010_07 Something else (please specify)

- 1 = Not checked
- 2 = Checked

A010_07a Something else (please specify) (free text)

Free text

[A011] Multiple Choice**Employment****"What is your current employment status? (Select all that apply.)"****A011 Employment: Residual option (negative) or number of selected options**

Integer

A011_01 Full-time employment**A011_02 Part-time employment****A011_03 Unemployed looking for work****A011_04 Unemployed NOT looking for work****A011_05 Homemaker****A011_06 Student****A011_07 Retired****A011_08 Something else (please specify)**

1 = Not checked

2 = Checked

A011_08a Something else (please specify) (free text)

Free text

[A012] Text Input**Occupation****"If employed, what is your occupation?"****A012_01 [01]**

Free text

[A013] Text Input**Student****"If student, what is your field of study?"****A013_01 [01]**

Free text