SECURITY TO SCALE THE LONG-TERM FUTURE OF THE IOT

Kristian Järnefelt | Executive Vice President, Consumer Cyber Security, F-Secure

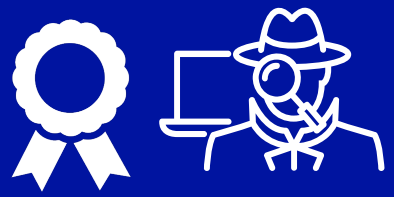
MWC Shanghai “Future IoT Convention” June 26th, 2019

F-Secure

F-SECURE

AI

+30y of cyber security experience and +10y with artificial intelligence



Award-winning enterprise grade cyber security to protect consumers at home and on the go

Global leader in the operator channel with 200+ partners with services beyond technology

Operations in 100+ countries, out of 25 offices, employing ~1,700 cyber security experts

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SMART = VULNERABLE
Mikko Hyppönen's Law
Chief Research Officer, F-Secure
TED
Talks

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IOT THREAT LANDSCAPE

2002
Tsunami

2008
Hydra

2009
Psyb0t

2011
OSX/Tsunami

2014
Spike
Gafgyt
Wifatch

2015
Moose
Pnscan

2016
Remaiten
Mirai
Hajime
Leet

2017
Satori
Persirai
Iot_Reaper
Brickerbot
Amnesia

2018
Torai
Hide N' Seek
Satori CoinRobber
ADB.Miner
Mushtik
Prowli
GoScanSSH
VPNFilter
Anarchy
Death
Hakai
...

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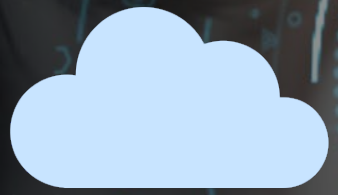
WHY THREATS HAPPEN

SMART HOME HUB, IOT DEVICES



SMART HOME CLOUD SERVICES

HOME GATEWAY

CREDEN-TIALS

PERSONAL INFORMATION

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IOT SECURITY RULE OF 5

1. No updates = no internet
2. Force default password change
3. Patch
4. Bug bounty
5. Collect only relevant data

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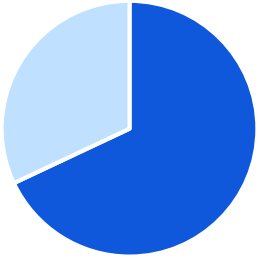
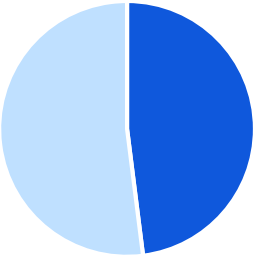
CONSUMERS FEELING HELPLESS



68%

CONCERNED
about security
& privacy



48%

POSTPONING
purchasing of
IoT devices

Source: F-Secure consumer survey 2018, n= 5000

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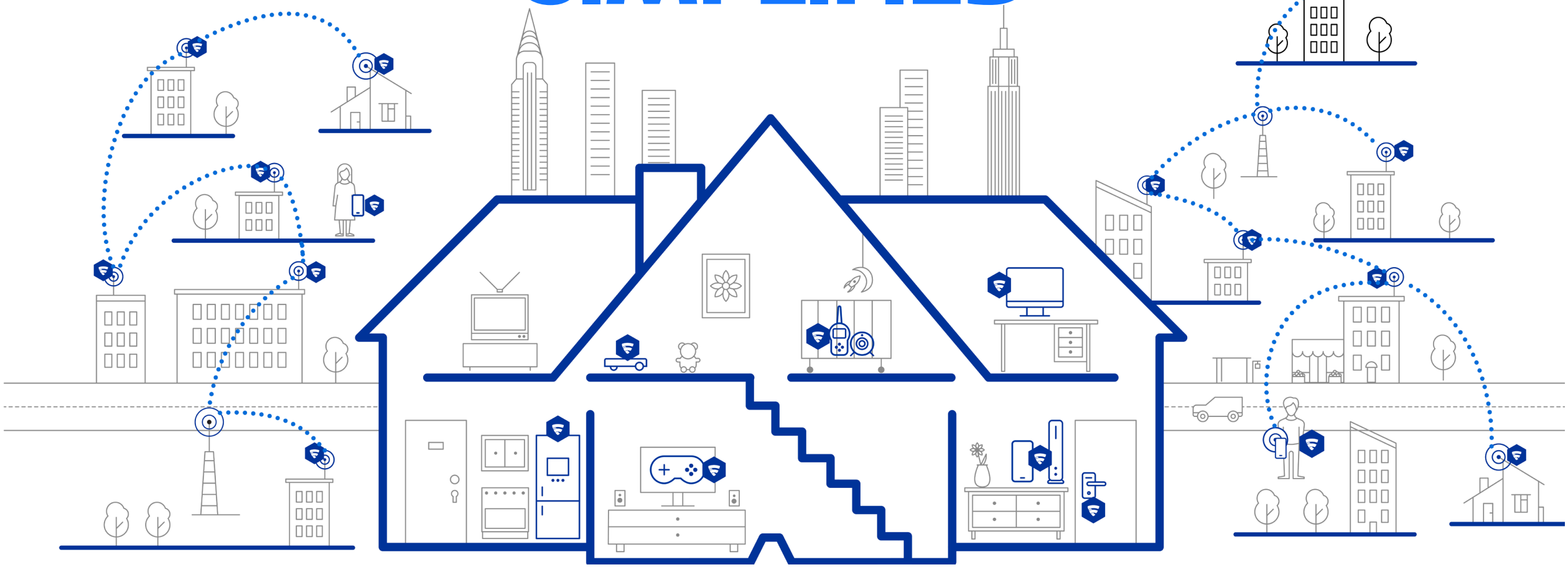
PROTECTION EVERYWHERE
SIMPLIFIED



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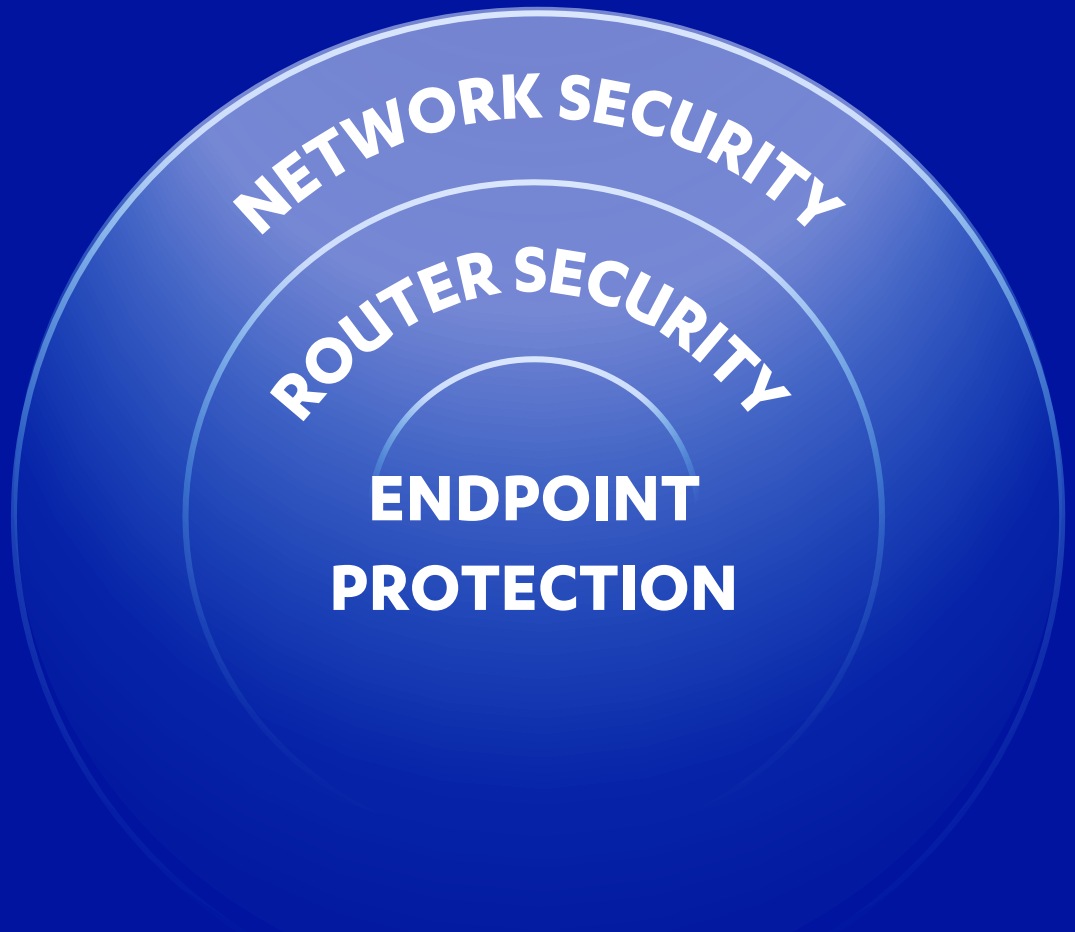
PROTECTION EVERYWHERE.
SIMPLIFIED.



AI DRIVEN 3-LAYER CYBER SECURITY

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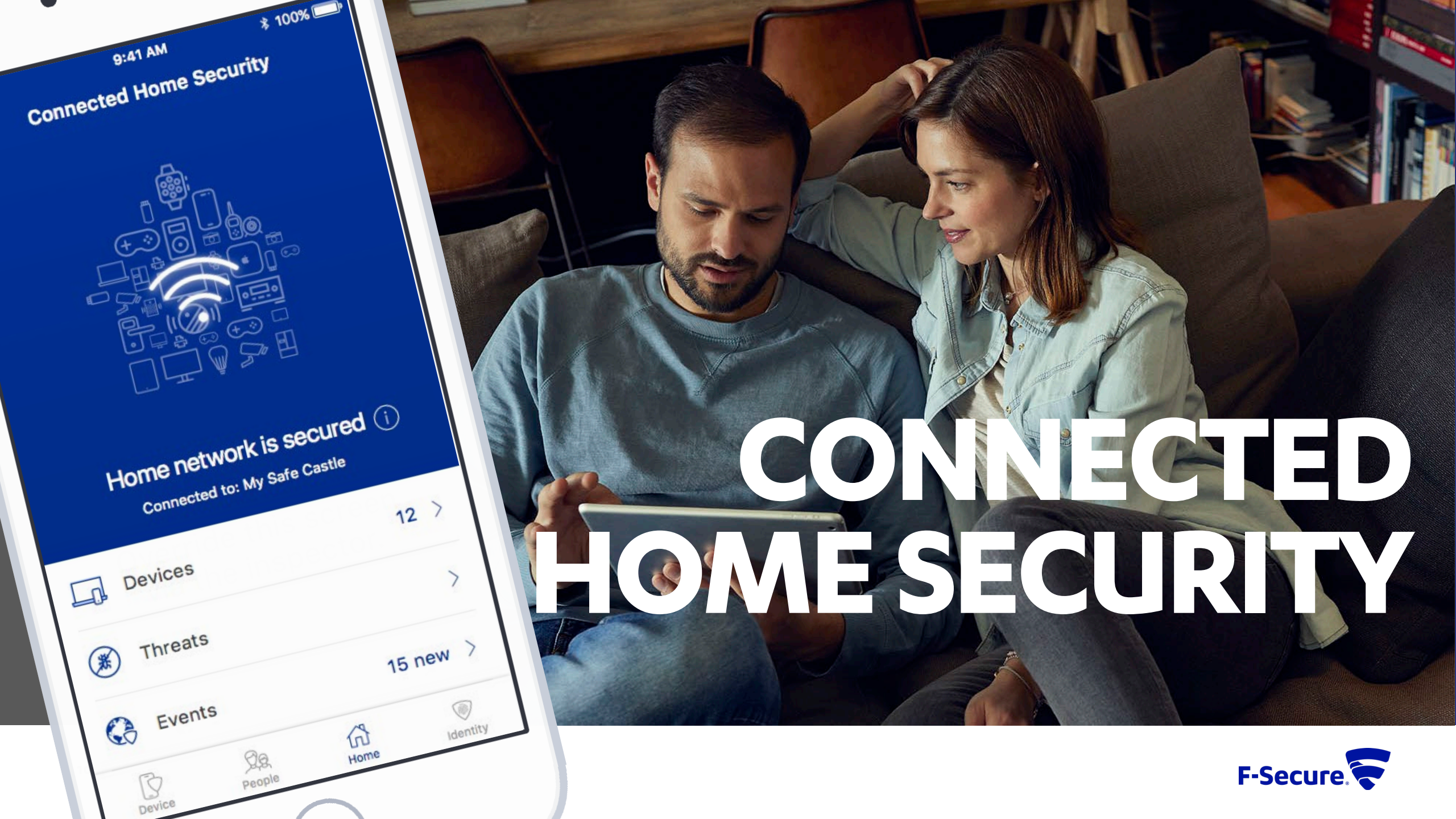
9:41 AM
100%
Connected Home Security
Home network is secured
Connected to: My Safe Castle
12
Devices
Threats
15 new
Events
Device
People
Home
Identity
CONNECTED
HOME SECURITY

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WHO DO YOU TRUST?
60%
TRUST THEIR OPERATOR PARTNERS
FOR PROVIDING SECURITY

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