

# Smart Home Security Report 2016

openWRT Summit 2016

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# Smart Home Security Report 2016



#### Research Findings

- Smart device adoption has reached a tipping point - the smart home is already here
- The smart home is woefully insecure due to users' failure to follow best practices
- Smart home users prefer security to usability and are prepared to take more responsibility

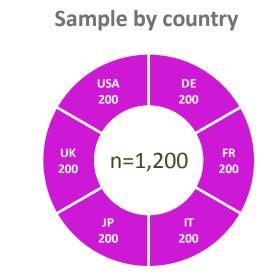
A prpl Foundation Study September 2016

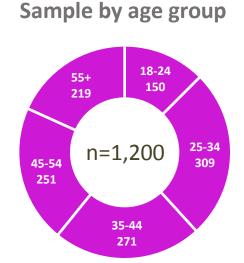
Source: Smart Home Security Report 2016, prpl Foundation, September 2016 - https://prpl.works/smart-home-security-report/

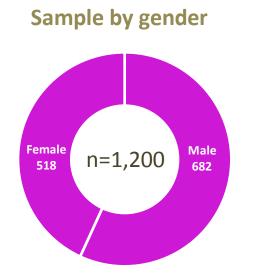




#### Methodology and demographics



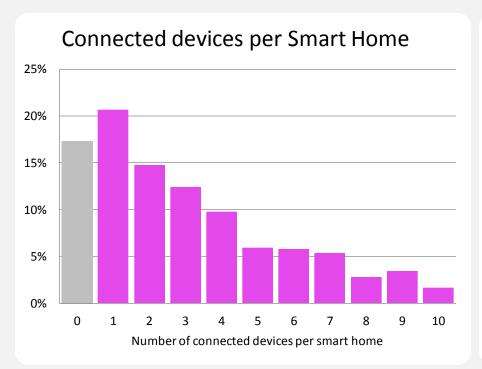


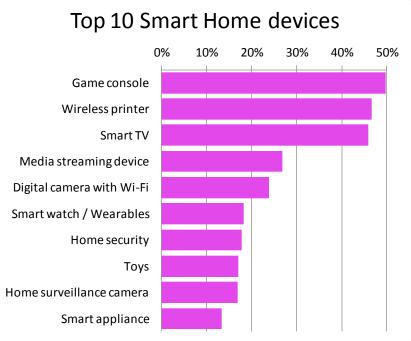


Survey conducted by OnePoll in accordance with the Market Research Society code of conduct - data collected between 22.06.2016 and 01.07.2016



#### Smart device adoption has reached the tipping point

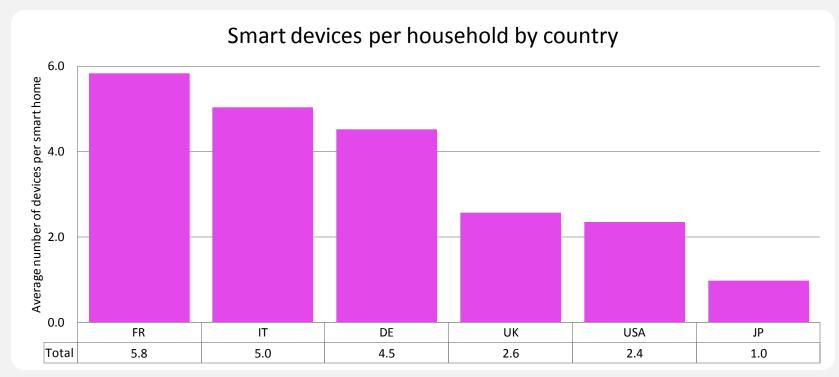




Q1) Which connected devices do you use in your home?



#### Smart device adoption has reached the tipping point

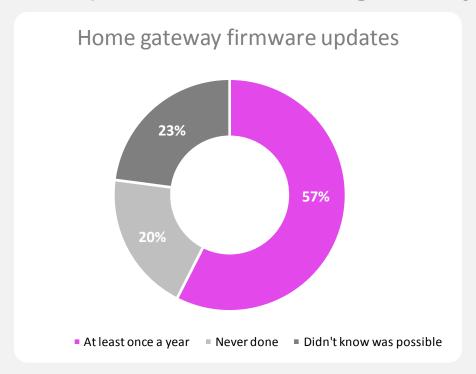


Q1) Which connected devices do you use in your home?





#### Many users never update their home gateway firmware

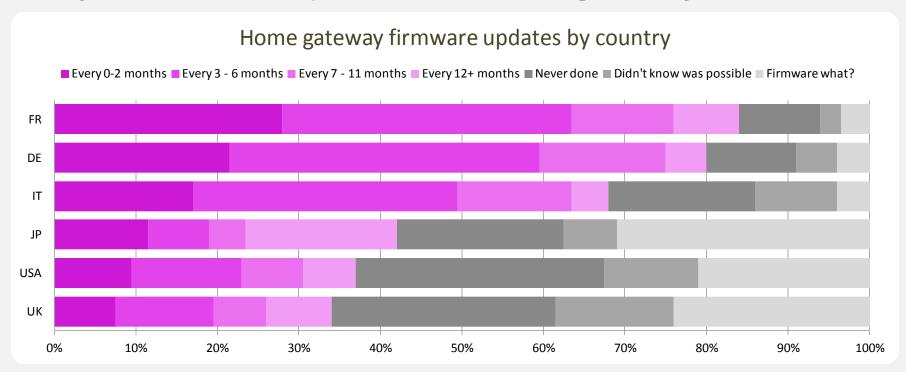


3) How many months has it been since the firmware on your router at home was last updated?





#### Many users never update their home gateway firmware

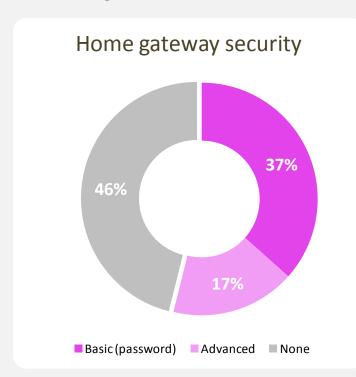


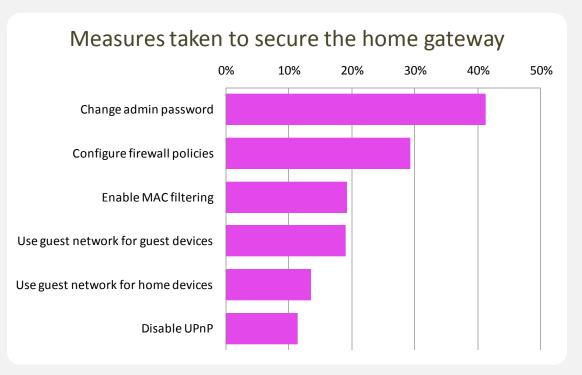
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# Many users never configure security settings



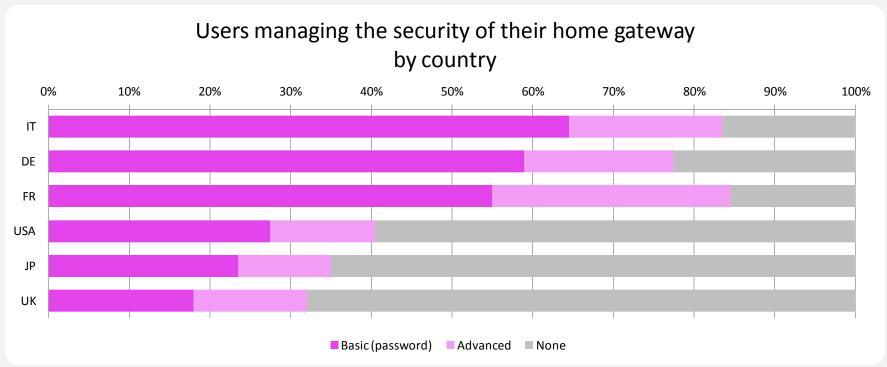


Q4) Do you or does anyone else in your household take the following measures to secure your home router?





# Many users never configure security settings

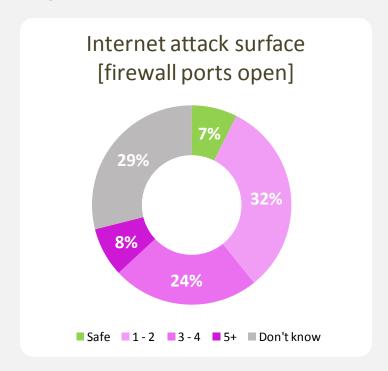


Q4) Do you or does anyone else in your household take the following measures to secure your home router?





### Too many firewall ports are unnecessarily open

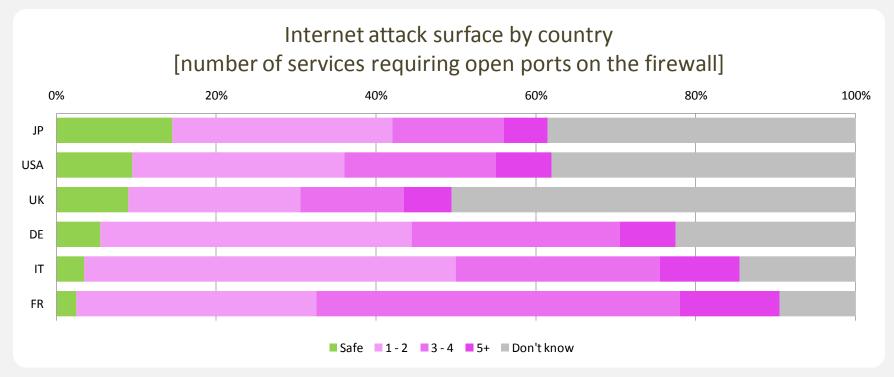


Q5) How many services in your home (such as games consoles, VoIP apps such as Skype, etc.) require open ports on your home router firewall?





# Too many firewall ports are unnecessarily open

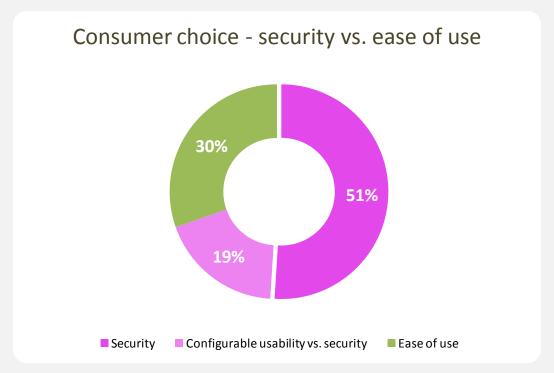


Q5) How many services in your home (such as games consoles, VoIP apps such as Skype, etc.) require open ports on your home router firewall?





### Most users prefer security over ease of use

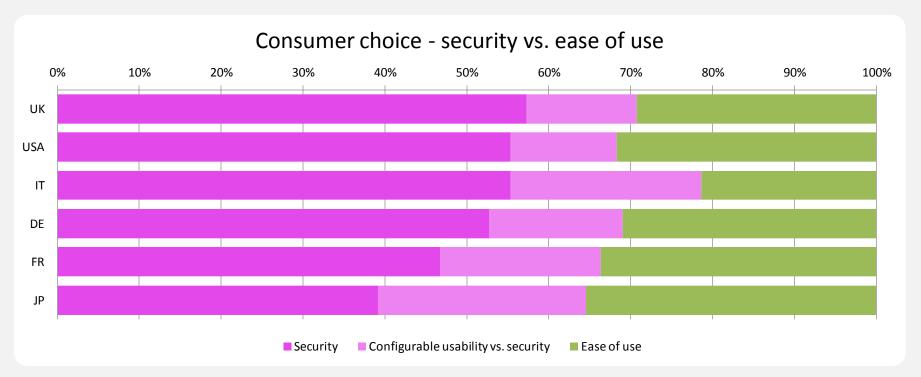


Q6) When thinking about connected devices, what do you think is the most important out of the following?





### Most users prefer security over ease of use

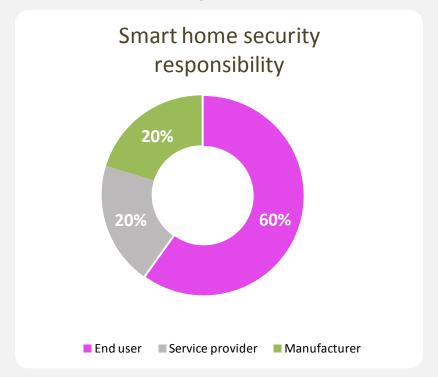


Q6) When thinking about connected devices, what do you think is the most important out of the following?





### Most users want to be responsible for security

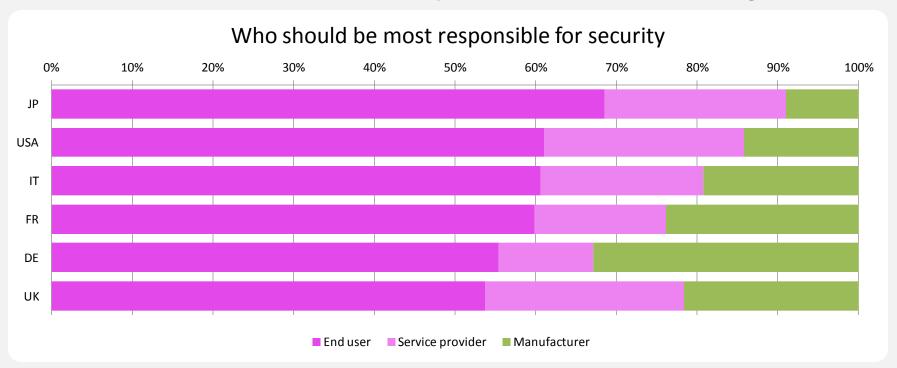


Q7) From the following, who do you think should be most responsible for the security of your connected devices?





## Most users want to be responsible for security

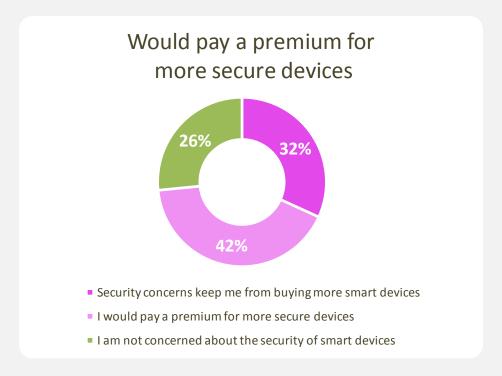


Q7) From the following, who do you think should be most responsible for the security of your connected devices?





#### ... and would pay a premium for more secure devices

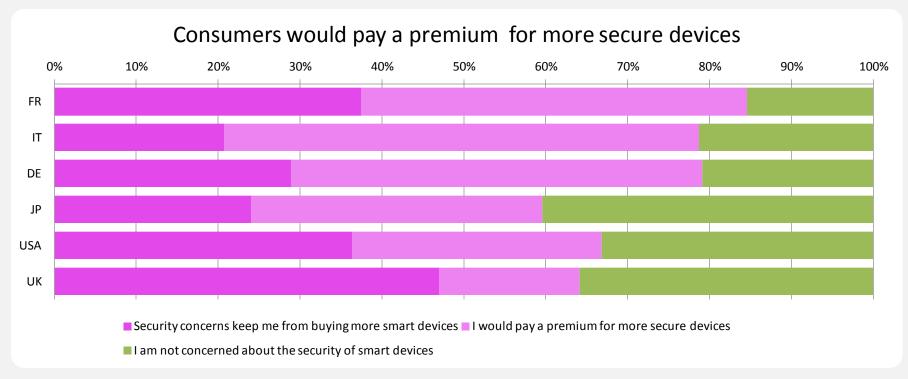


Q8)Which of the following statements best describes your views on connected devices?





#### ... and would pay a premium for more secure devices



Q8)Which of the following statements best describes your views on connected devices?







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# Top 10 tips for better smart home security



#### Top tips for better smart home security

- Regularly check router firmware updates
- Change default admin password on router
- Configure firewall policies close all ports
- Enable MAC filtering
- Use guest network for guest devices
- 6 Use guest network for all home devices
- Enable wireless isolation
- Disable DNS setting via DHCP
- Disable USB file sharing
- Disable UPnP

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