CONSUMERCYBER SECURITY BUSINESS

Kristian Järnefelt, Executive Vice President



CONSUMERS' SECURITY NEEDS **ARE GETTING BROADER**

GROWING NUMBER OF INCIDENTS



> 1 M lot devices and rou infected with Mirai IoT devices and routers get



Ransomware has peaked, while cryptomining explodes (229x YoY growth)



Data records compromised worldwide in H1/2018



Breaches of popular services have already had an impact on consumers

Security and privacy concerns shifting from a single device to overall online safety

NUMBER OF CONNECTED DEVICES

20B

IoT Gadgets in Use by 2020

Early adopters are excited about the IoT and already have IoT devices

67%

80%

Concerned about devices leaking personal information

46%

Have put off buying a connected device due to security concerns

88%

Worry about viruses and ransomware



WILLINGNESS TO PAY FOR MULTI-DEVICE SECURITY INCREASING DUE TO SECURITY CONCERNS



Results based on F-Secure global consumer survey ('n' = 4000 covering USA, UK, Germany, France, and Brazil)



CONSUMER SECURITY SOFTWARE MARKET CONTINUES TO GROW



Source: Gartner, Forecast: Information Security and Risk Management, Worldwide, 2016-2022, 3Q18



EFFICIENT DISTRIBUTION THROUGH A GLOBAL ECOSYSTEM OF PARTNERS





Consumer devices



SECURITY DELIVERED ACCORDING TO THE NEEDS OF THE CUSTOMER

Products integrated into Products as turnkey routers or network solutions 2 6 Business support systems (\$ (Je) (O)ANALYTICS BILLING MESSAGING



F-SECURE TOTAL – PREMIUM CYBER SECURITY FOR YOU AND YOUR DEVICES





YOU

Avoid being scammed by fake websites, protect your identity and privacy, and keep your **passwords** in a secure and easily accessible place.

YOUR DEVICES

Endpoint protection keeps your devices and files safe against online threats. **VPN** makes them invisible on the internet for absolute privacy.

YOUR HOME

Protect every smart device and appliance connected to your home network with the **SENSE** security subscription, a compatible router required.



OPERATORS MODERNIZING THEIR NETWORKS AND MOVING INSIDE THE HOME





CONNECTED HOME SECURITY FOR OPERATORS, AND CONSUMERS

ROUTER MANUFACTURERS & PARTNERS SECURITY INTEGRATED IN OPERATOR ROUTER eliso Actiontec **SECURITY INTEGRATED IN 3rd PARTY ROUTERS** SERCOM PART OF F-SECURE TOTAL SENSE SOFTWARE SUBSCRIPTION ZYXEL **COMES WITH F-SECURE TOTAL**



WE ARE REINVENTING AND SIMPLIFYING THE SECURITY EXPERIENCE





OUR STRATEGY IN DIRECT BUSINESS IS GROWING ARPU AND PRODUCT USAGE

1. AARPU* uplift with F-Secure TOTAL



2. Quarterly AARPU development



3. Shift to mobile era continues, PC stable



*AARPU = Annualized Average Revenue Per User



SERVICE PROVIDER BUSINESS CONTINUES TO WIN NEW ACCOUNTS





HEALTHY UNDERLYING OPERATOR BUSINESS





PORTFOLIO AND SERVICES UNIQUELY INTEGRATE WITH PARTNER PROCESSES



DRIVING SERVICE PROVIDER SUCCESS

- Best practices from around 200 operators and Direct Business
- Focus in Operators' business outcomes and full customer lifecycle
- Analytics and data driven customer journey optimization
- Customer lifecycle messaging
- NPS measurement
- Churn prediction



CHURN PREDICTION WITH ARTIFICIAL INTELLIGENCE



Pseudonymized customer data

Identifying churn candidates and managing their lifecycle proactively



FOCUS AREAS

- Deliver profitable growth
- Re-invent and simplify security user experience
- New market opportunities from connected home security

