

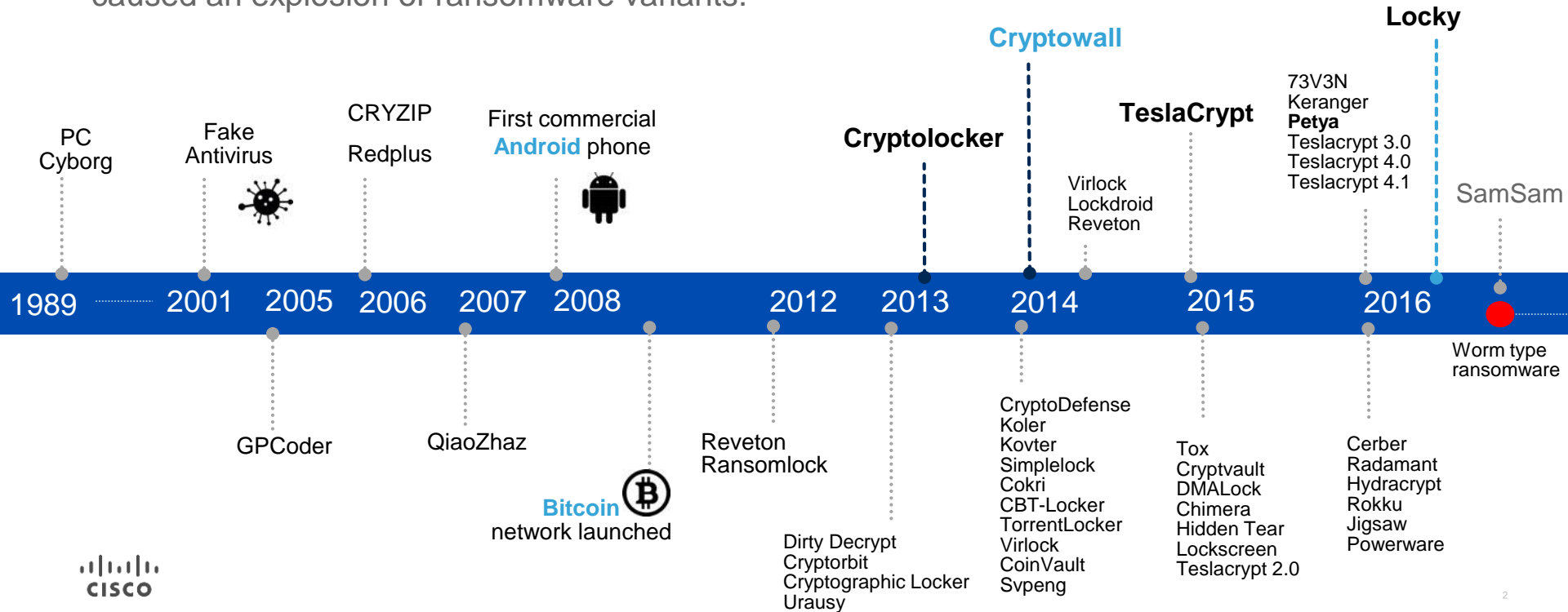


# Ransomware Defense

Fabio Panada, Paolo Carini  
Consulting Security Engineer  
Cisco Security

# The Evolution of Ransomware Variants

The confluence of easy and effective encryption, the popularity of exploit kits and phishing, and a willingness for victims to pay have caused an explosion of ransomware variants.



# Ransomware is a Massive Market



Size of the  
ransomware market  
– \$1B and growing



\$209M in  
Q1 CY2016

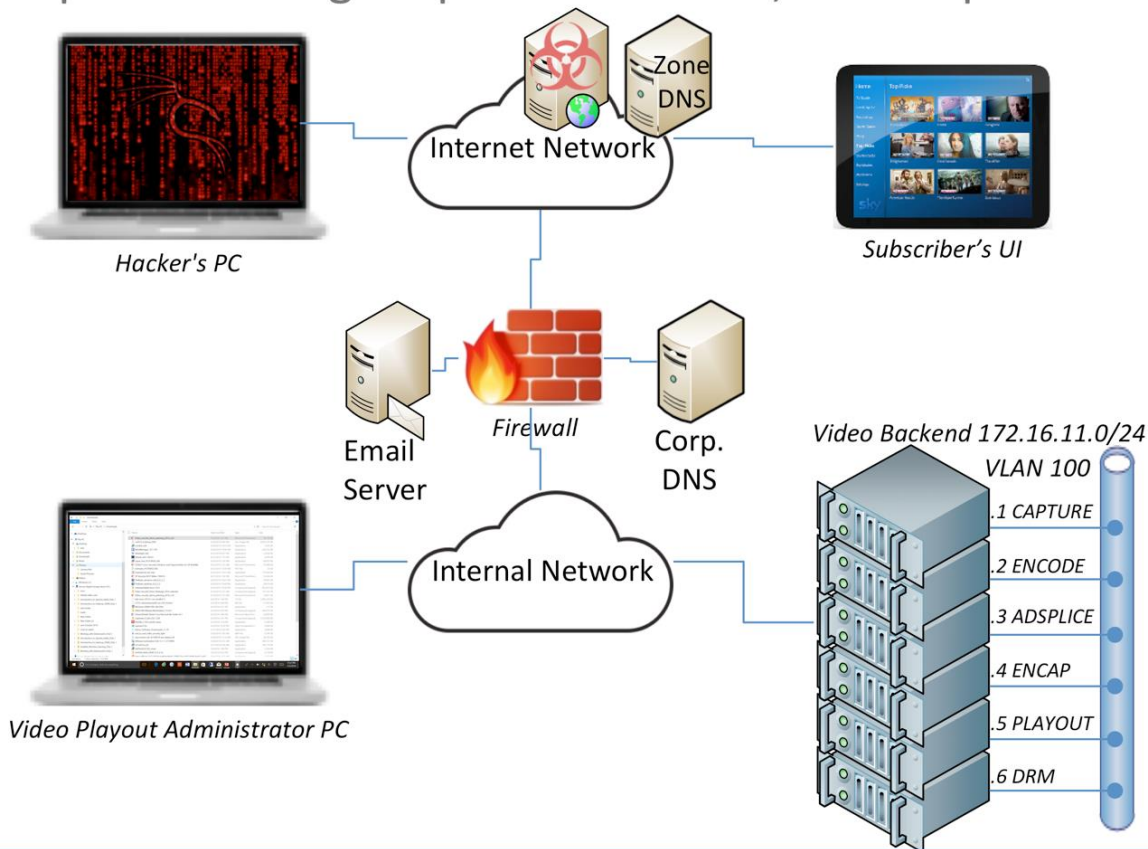


YoY growth of 1000%  
since CY2015

# Demo

# The Anatomy of a Security Breach

## Spear Phishing: Impact Data Theft, User Experience



### Introduction

Attack Step:

This presentation is designed to take the viewer through a real world attack scenario. It is recommended to follow the attack flow through to completion once then repeat to view the mitigation opportunities when indicated on screen during the slide show.

The goal of this presentation is to demonstrate the ease in which hackers can establish a foothold on the inside of the network and systematically infiltrate critical systems for the purpose of data theft, service disruption or to further ideological agendas.

Please refer to the instructions provided in the status bar displayed at the bottom of the screen.

Welcome to the Presentation. Please review the intro at right then click anywhere to begin

# Architectural Force Multiplier

Cisco Protects from the Network to the Endpoint to the Cloud



## Email Security

On Promise or In the Cloud

Blocks 99% of Spam, 1 in 1 million false positive rate



## Next-Gen Firewall

Prioritizes threats

Automates response

Improved malware protection

Fully integrated management



## ISE + Stealthwatch

Network as a Sensor  
and Enforcer



## Umbrella

Security from the cloud

Blocks 95% of threats before they cause damage



## AMP

See a threat once, block it everywhere

Most effective solution for known and emerging advanced threats



## Web Security

Block web communication to infected sites and files



# Cisco Ransomware Defense Solution

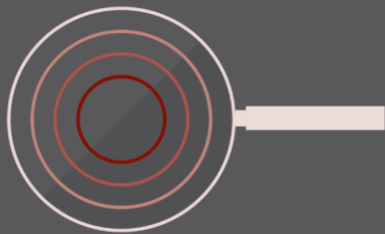
Solution to Prevent, Detect and Contain ransomware attacks

**Cisco Ransomware Defense Solution is not a silver bullet, and not a guarantee. It does help to:**

- **Prevent** ransomware from getting into the network where possible
- **Stop it at the systems** before it gains command and control
- **Detect** when it is present in the network
- Work to **contain it** from expanding to additional systems and network areas
- Performs **incident response** to fix the vulnerabilities and areas that were attacked



This solution helps to keep business operations running with less fear of being taken hostage and losing control of critical systems



# How to benefit from our Free Risk Assessment? Cisco Threat Scan Proof of Value Programme

- With this offer, you will:
  - Gain valuable information on your network including critical attacks
  - Reduce risk and make security a growth engine for your business
- This offer is valid through December 29<sup>th</sup>, 2016 in Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Luxemburg, Netherlands, Norway, Spain, Sweden, Switzerland and United Kingdom.
- For more information and to request a Threat Scan POV, go to [www.cisco.com/go/threatscanpov](http://www.cisco.com/go/threatscanpov)



