





## 150 millones de afectados

# **Apache Struts CVE-2017-5638**

Remote Code Execution Vulnerability

#### El Confidencial

## Desastre Equifax: cuenta atrás para el peor 'hackeo' financiero de la historia



(Foto: Reuters)



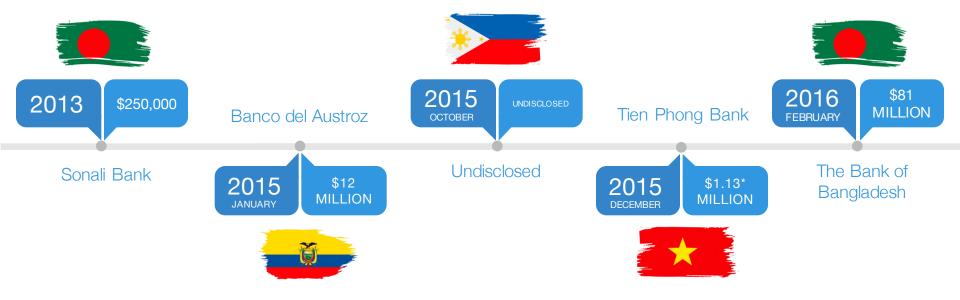
How Cybercriminals get money from Banks & Financial Sector?













**Customer Security Customer Security** All users need to re-attest and First self-attestation to Program (CSP) Program (CSP) confirm full compliance with the Introduced Becomes Mandatory be summited mandatory security controls 2016 2017 2017 2018 SWIFT SWIFT JUNE **DECEMBER** MAY **DECEMBER** Banco de 2016 \$10 \$10 2017 2018 \$4.4 Comercio The Far Eastern MILLION **MILLION** MILLION JUNE **OCTOBER** MAY Exterior International Banco NIC Asia Bank Undisclosed 2017 \$60 2018 \$110\* de Chile MILLION **MILLION** OCTOBER 2018 \$6 \$1.8 2017 **MILLION** MILLION **FEBRUARY** Copyright 2018 Trend Micro Inc. \*Attempt 8

### Important Dates for SWIFT CSP



- **By 31 December 2018:** All SWIFT users must re-attest and confirm full compliance with the mandatory security controls V1 (2018), dependent on the expiry date of the attestation.
- From 1 January 2019: SWIFT reserves the right to report users who have failed to self-attest full compliance with all mandatory security controls (or who connect through a noncompliant service provider) to their local supervisors.



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Who? (Attribution)







HACKTIVISTS



COMPANIES



MALICIOUS INDIVIDUALS



STATE ACTORS

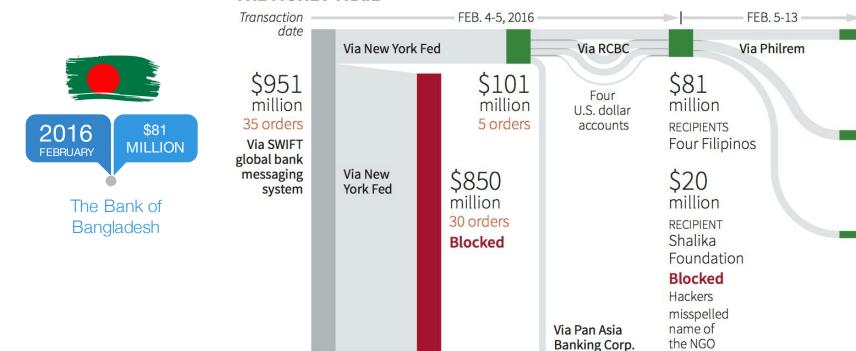


Russian spies hacked the Olympics and tried to make it look like North Korea did it, U.S. officials say

#### **Bangladesh Bank heist**

In one of the largest cyber heists in history, hackers ordered the Federal Reserve Bank of New York to transfer \$81 million from Bangladesh Bank to accounts in the Philippines.

#### THE MONEY TRAIL



Sources: Philippines Court of Appeals documents; Reuters



million

RECIPIENT

\$29

million

RECIPIENT

Solaire\*

\$21

million

RECIPIENT

Eastern

Hawaii

\* A casino resort owned and

operated by Bloomberry Resorts

Leisure Co.

Weikang Xu

Home

# Deciphering the Bangladesh bank heist

by Jerome Kehrli

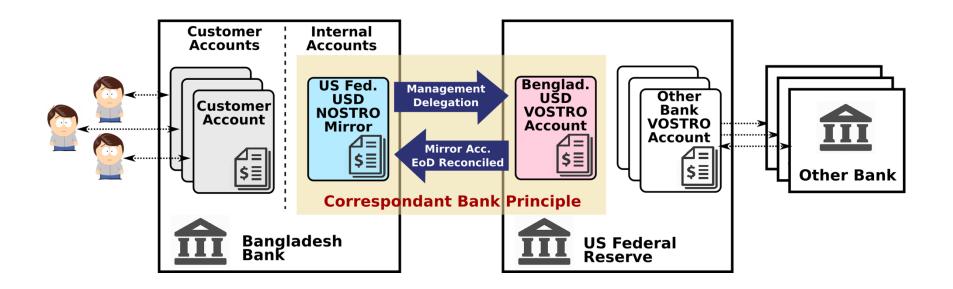
O Posted on Wednesday Nov 15, 2017 at 11:03PM in Banking

The Bangladesh bank heist - or SWIFT attack - is one of the biggest bank robberies ever, and the most

This is the story of a group of less than 20 cyber-criminals, composed by high profile hackers, engineers, financial experts and banking experts who gathered together to hack the worldwide financial system, by impressive cyber-crime in history.

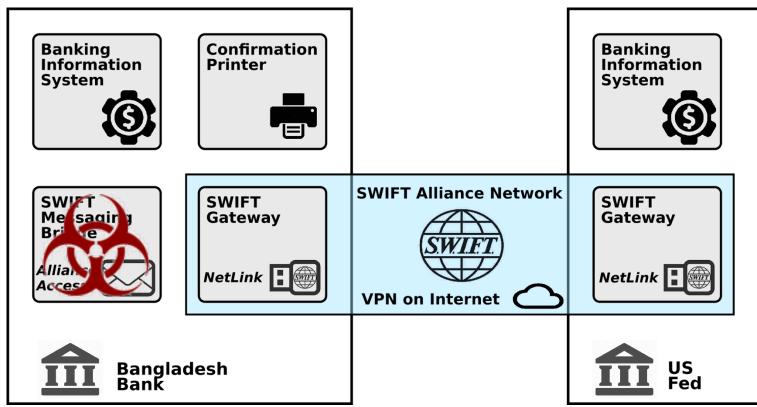
attacking an account of the central bank of Bangladesh, a lower middle income nation and one of the world's most densely populated countries, and steal around 81 million US dollars, successfully, after attempting to steal almost a billion US dollars.



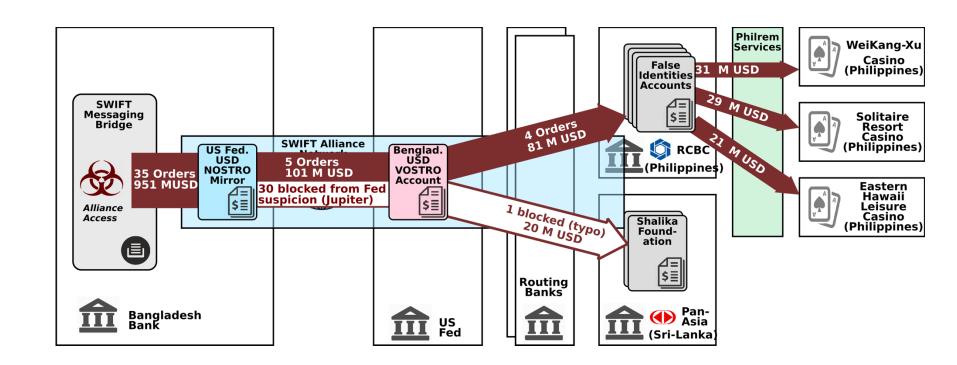




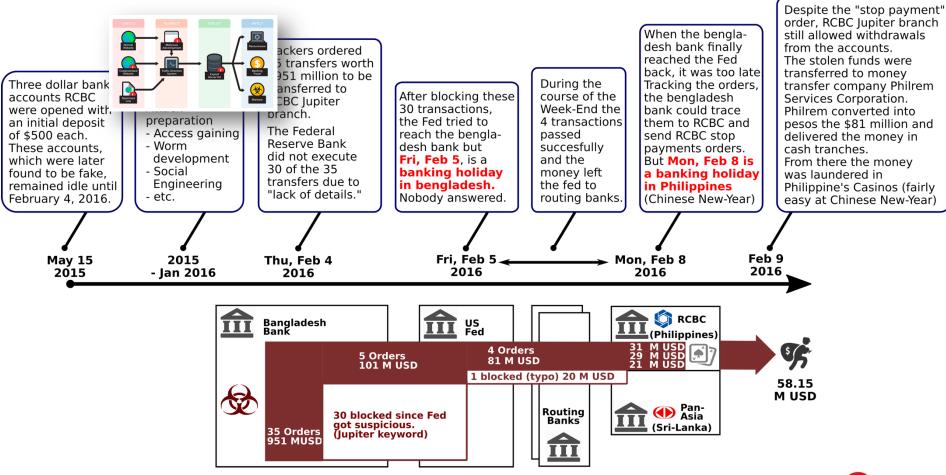


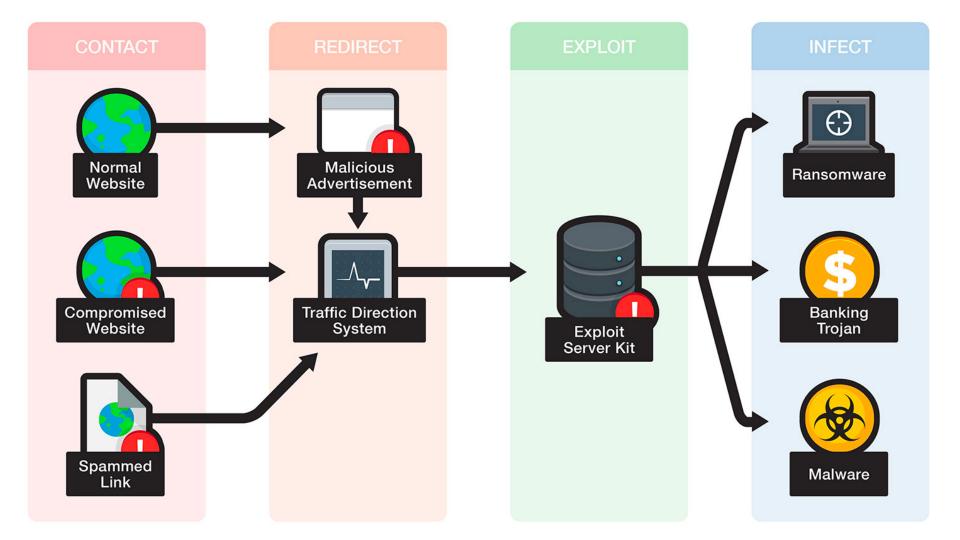
















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CVE-2017-0199: New Malware Abuses PowerPoint Slide Show

Posted on: August 14, 2017 at 1:21 am Posted in: Malware, Vulnerabilities Author: Trend Micro



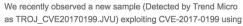






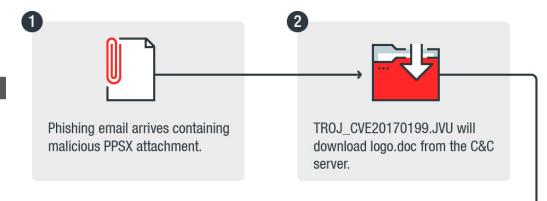
#### By Ronnie Giagone and Rubio Wu

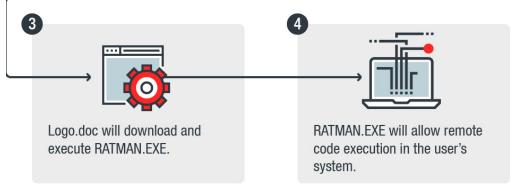
CVE-2017-0199 was originally a zero-day remote code execution vulnerability that allowed attackers to exploit a flaw that exists in the Windows Object Linking and Embedding (OLE) interface of Microsoft Office to deliver malware. It is commonly exploited via the use of malicious Rich Text File (RTF) documents, a method used by the DRIDEX banking trojan discovered earlier this year.



a new method that abuses PowerPoint Slide Show—the first time we have seen this approach used in the wild before. As this is not the first time that CVE-2017-0199 was exploited for an attack, we thought it fitting to analyze this new attack method to provide some insight into how this vulnerability can be abused by other campaigns in the future.











**KILLMBR** 





DRIDEX FALLCHILL







#### **ARRIVAL** INSTALLATION **PAYLOAD** 111111 ---RTF Spam with Connects to C&C to send and Adwind/XTRAT RTF attachment receive information/command RTF Backdoor routines with RTF connects to Drops copy of itself and compromised website creates autostart registry plugin support for added functionalities leading to Loki download Downloads other malware Loki drops Disable application. Adwind and XTRAT security tools, and products such as Loki

- Information theft
- File and registry management
- Remote desktop
- Remote shell
- Process management
- Uploading, downloading, and executing files
- Screen capture desktop
- Recording via webcam or microphone
- Upload and download files
- Registry manipulation (read, write and manipulate)
- Process manipulation (execute and terminate)
- Service manipulation (stop, start, create and modify)
- Perform remote shell and control victim's system



## SWIFT CSP (Customer Security Program)





# Customer Security Program

# Business Forum Switzerland

Christian Kothe Head of Central & Eastern Europe Zurich, March 7, 2017

v04





#### **CSP** | You > Security Guidelines and Assurance



CSP Security Controls Framework				
Secure Your Environment	1.	Restrict Internet access		
	2.	Segregate critical systems from general IT environment		
	3.	Reduce attack surface and vulnerabilities		
	4.	Physically secure the environment		
Know and Limit Access	5.	Prevent compromise of credentials		
	6.	Manage identities and segregate privileges		
Detect and Respond	7.	Detect anomalous activity to system or transaction records		
	8.	Plan for incident response and information sharing		

- Applicable to all customers and to the whole end-to-end transaction chain beyond the SWIFT local infrastructure
- Mapped against recognised international standards NIST, PCI-DSS and ISO 27002
- 16 controls are mandatory and 11 are advisory



## How Trend Micro can help?



### Mandatory CSP Security Controls – 1.1

1.1 SWIFT Environment Protection

Ensure the protection of the user's local SWIFT infrastructure from potentially compromised elements of the general IT environment and external environment.

How Trend Micro help

to achieve compliance

Deep Security Firewall for Microsegmentation



## Mandatory CSP Security Controls – 2.2

2.2 Security Updates

Minimize the occurrence of known technical vulnerabilities within the local SWIFT infrastructure by ensuring vendor support, applying mandatory software updates, and applying timely security updates aligned to the assessed risk.

How Trend Micro help to achieve compliance

Deep Security Virtual Patching for Vulnerability Inventory and Automatic Remediation without Impacting Business Continuity



## Mandatory CSP Security Controls – 2.3

2.3 System Hardening	Reduce the cyber attack surface of SWIFT-related components by performing system hardening.
How Trend Micro help to achieve compliance	Deep Security Application Control for White Listing systems and prevent Uwanted Modifications



## Mandatory CSP Security Controls – 6.1

6.1 Malware Protection

Ensure that local SWIFT infrastructure is protected against malware.

How Trend Micro help

to achieve compliance

Deep Security Anti-Malware to detect emerging threats using Predictive Machine Learning



## Mandatory CSP Security Controls – 6.2

6.2 Software Integrity	Ensure the software integrity of the SWIFT-related applications.		
How Trend Micro help to achieve compliance	Deep Security File Integrity Monitoring to detect unauthorized modifications to the system		



## Mandatory CSP Security Controls – 7.2

7.2 Security Training and Awareness

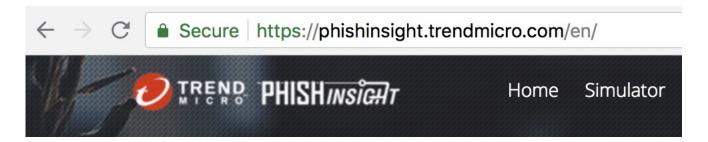
Ensure all staff are aware of and fulfil their security responsibilities by performing regular security training and awareness activities.

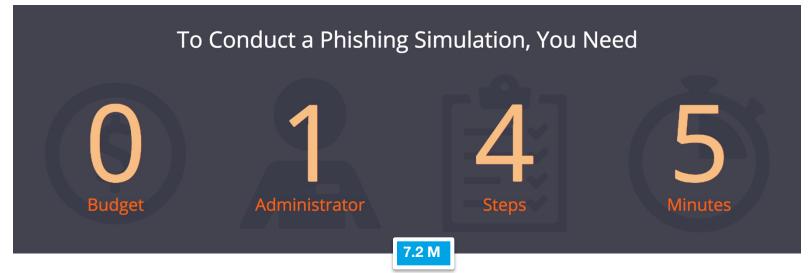
How Trend Micro help to achieve compliance

Trend Micro Phish Insight is an awareness service to help your organization resist online scams. Phish Insight lets you test and educate your employees on how to spot phishing and avoid attacks.



#### SWIFT CSP





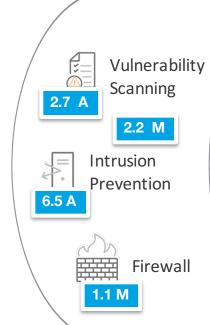


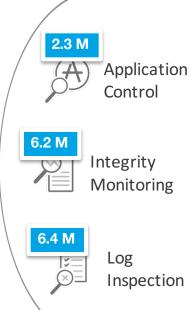
SWIFT CSP

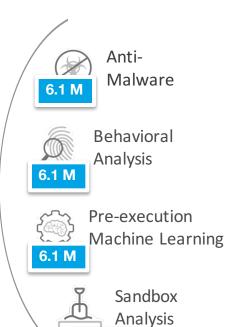
#### **Network Security**

#### **System Security**

#### **Malware Prevention**







6.1 M



**Trend Micro** 

Only 1 agent









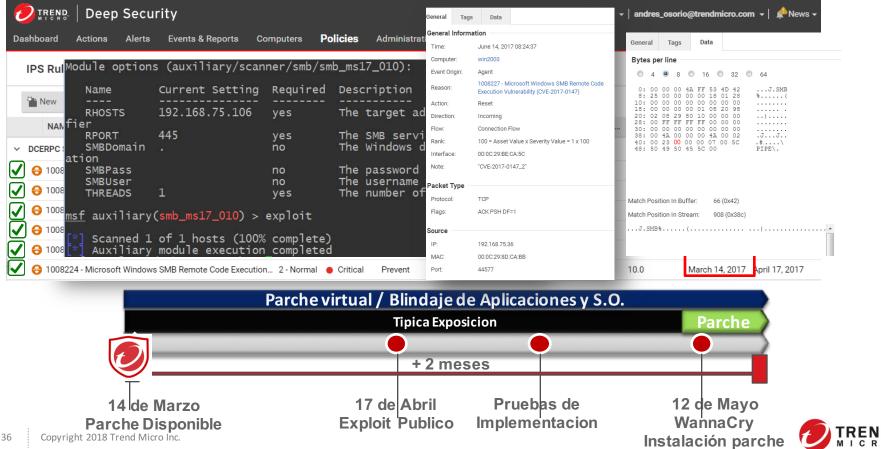






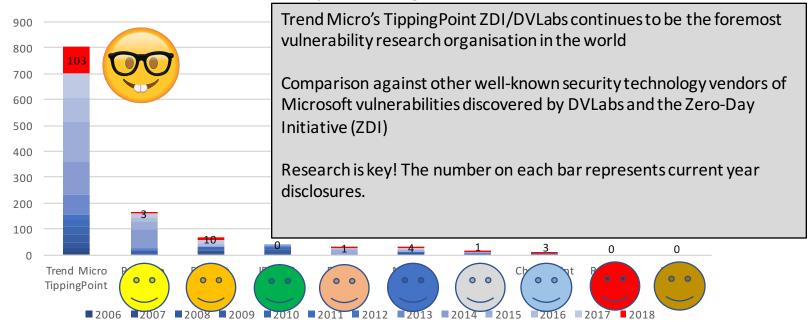
**Microsoft Azure** 

#### Ciclo de Parches Vuln: Microsoft MS17-010



#### Microsoft Vulnerability Acknowledgments Since 2006\*

#### Microsoft Vulnerability Acknowledgements 2006-Present





## Muchas Gracias!

