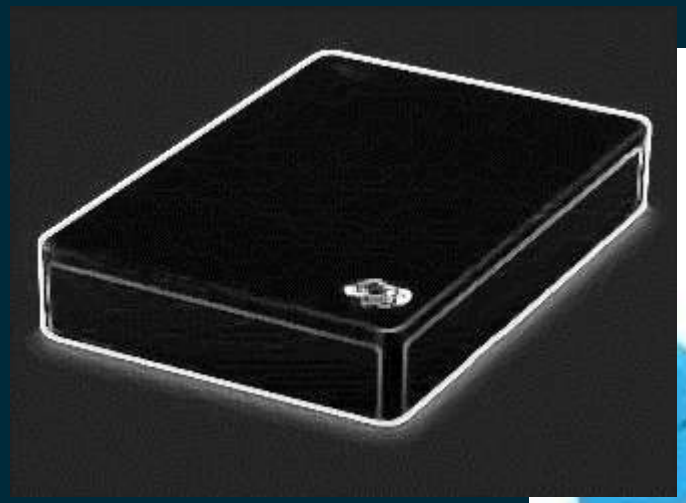
RETHINK
BACKUP



BACK

BACK UP
MUSIC
DATABASE
PHOTO

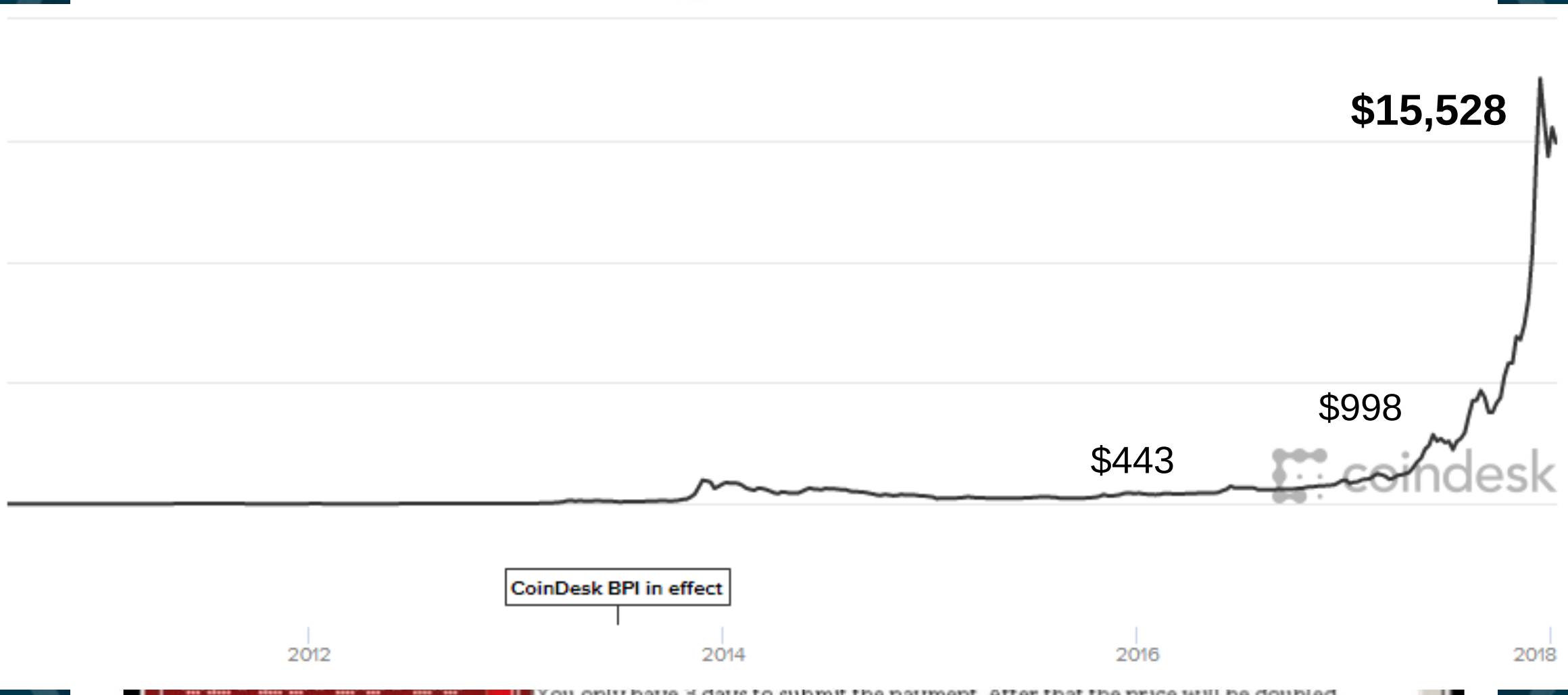
Limitations of Traditional Backup

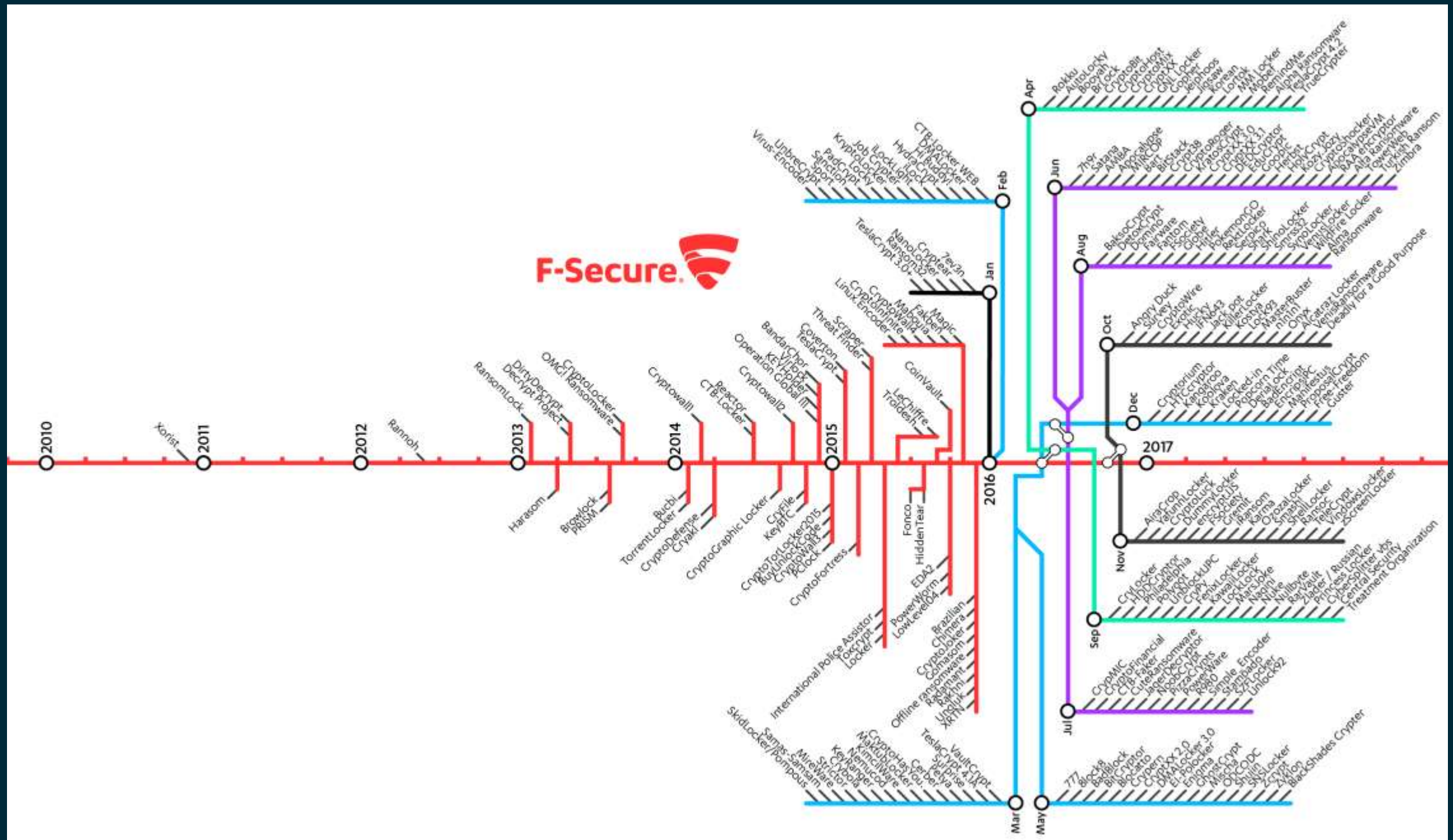
- Higher failure rates
- Manual testing
- Slow recovery time
- Risk of infection or theft

What is Intelligent Business Continuity?

- Hybrid cloud-based backup
- Automated
- Image-based
- Virtualization Capabilities

Ransomware Hack Exploited Human Error




F-Secure
2010
Xorist
2011
2012
Rannoh
2013
RansomLock
DirtyDecrypt
DecrYpt Project
CryptoLocker
OMG! Ransomware
Harasom
BrowLock
PRISM
2014
Cryptowall
Reactor
CTB-Locker
Cryptowall2
Operation Global III
BandarChor
KeyVirtor
Virlock
Coverton
TeslaCrypt
Scraper
Threat Finder
Bucbi
TorrentLocker
CryptoDefense
CryAkl
CryptoGraphic Locker
CryFile
KeyBTC
CryptoTorLocker2015
BuyUnlockCode
CryptoWall3
PClock
CryptoFortress
2015
LeChiffre
Tradeish
CoinVault
Fonco
HiddenTear
EDA2
PowerWorm
LowLevel04
International Police Assistor
Toxcrypt
Locker
2016
Feb
CTB-Locker WE8
DMALocker
HydraCrypt
Hi Buddy!
iLockLogic
iLockCrypt
Job Crypter
KryptoLocker
Locky
PadCrypt
Sanction
Sport
UnbreCrypt
Virus-Encoder
Jan
NanoLocker
Ransom32
Cryptear
7ev2n
TeslaCrypt 3.0+
Mapo
Fakben
Magic
CryptoWall4
CryptoInfinite
Linux Encoder
Apr
Rokku
AutoLocky
Boopvalh
BrLock
CryptoBit
CryptoHost
CryptoMix
CryptXX
GNL Locker
Gopher
Jenphoos
Jigsaw
Korean
Lortok
MM Locker
Mobef
RemindMe
Alpha Ransomware
TeslaCrypt 4.2
TrueCrypter
Jun
7ihor
Satana
AMBA
Apocalypse
MIRCOP
ber
BitStack
Crypt38
CryptoRoger
KratosCrypt
CryptXX 3.0
CryptXX 3.1
DMALocker
EduCrypt
Goopic
Herbst
HowCrypt
Kozy.Jozy
CryptoShocker
ApocalypseVM
RAA encryptor
Alfa Ransomware
TowerWeb
Turkish Ransom
Zimbra
Aug
BakaCrypt
DetoxCrypt
Domino
Fairware
Fantom
iSociety
Globe
Hitler
PokemonCO
RektLocker
Serpent
Shark
ShinoLocker
Smrss32
SynoLocker
VenusLocker
WildFire Locker
Alma Ransomware
Oct
Angry Duck
Survey
CryptoWire
Exotic
Hurricane
IFN643
Jack pot
KillerLocker
Kostya
Lock93
MasterRuster
ninini
Onyx
Alcatraz Locker
VenusRansomware
Deadly for a Good Purpose
Dec
Cryptorium
HTCryptor
Kangaroo
Kolobova
Kraken
Locked-in Time
Popcorn Time
RedLock
BadEncrypt
Encrypt3pc
Manifestus
ProposalCrypt
Free-Freedom
Cluster
2017
Nov
AirCrop
ReturnLocker
CryptoLuck
DummyLocker
encryptJJS
FSociety
Gremit
iRansom
Karma
OrzoaLocker
Smash
ShellLocker
RansoC
TeleCrypt
VindowsLocker
ZScreenLocker
Sep
Cryl ocker
HDDCryptor
Philadelphia
Polyglot
UnlockLikUPC
CryPy
FenixLocker
KawaiiLocker
LockLock
MarsJoke
Nagini
Nuke
Nullbyte
RaiVault
Zlader / Russian
Princess Locker
Cybersplitter vbs
Central Security
Treatment Organization
Jul
CryptMIC
CryptoFinancial
CTB-Faker
CuteRansomware
JagerDecryptor
NoobCrypt
PizzaCrypts
PowerWare
R980
simple_Encoder
Stampado
SZFLocker
Unlock92
May
777
BlockB
BadBlock
BitCryptor
Blocatto
Cryoem
CryptXX 2.0
DMALocker 3.0
El-Polocker
Enigma
GhostCrypt
Mischa
OhCoDC
Shrilin
SNSLocker
ZCryptor
Zyklon
BlackShades Crypter
Mar
SkidLocker/Pompous
Samas-Samsam
MireWare
StrCryptor
KeyHanger
Nemucod
KimcilWare
NaksiHLocker
CryptoHasYou
CerBerSys
TeslaCrypt 4.1A
VaultCrypt
Surprise
Petya

Bitcoin is an innovative payment network and a new kind of money.

Fast peer-to-peer transactions

Worldwide payments

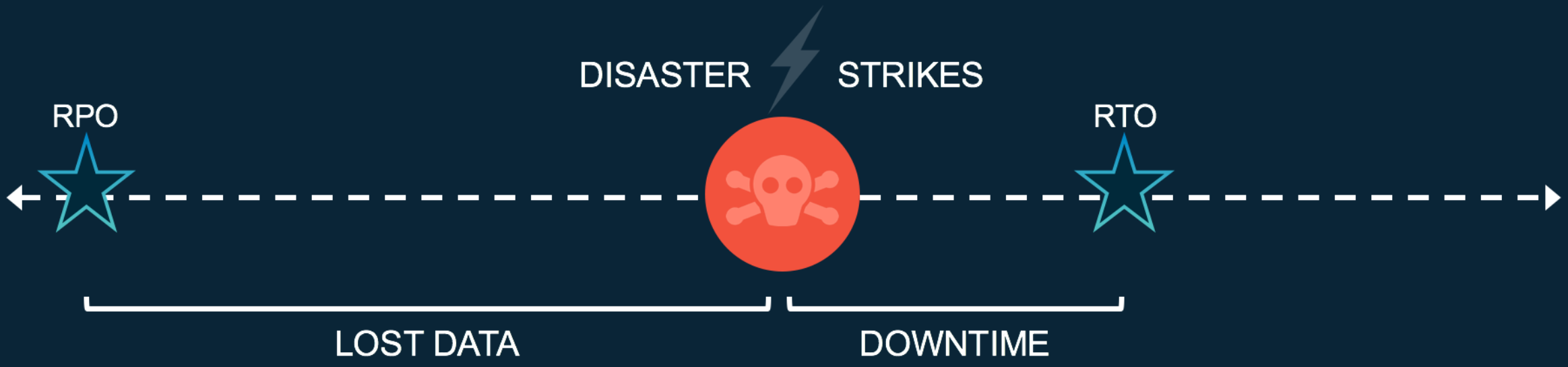
Low processing fees

RANSOMWARE

THE IMPACT IS WIDESPREAD

COSTING SMALL & MIDSIZED BUSINESSES

$75B/YR


DISASTER STRIKES
RPO
RTO
LOST DATA
DOWNTIME

FOR SMBs, IT'S NO LONGER A QUESTION OF IF, BUT WHEN

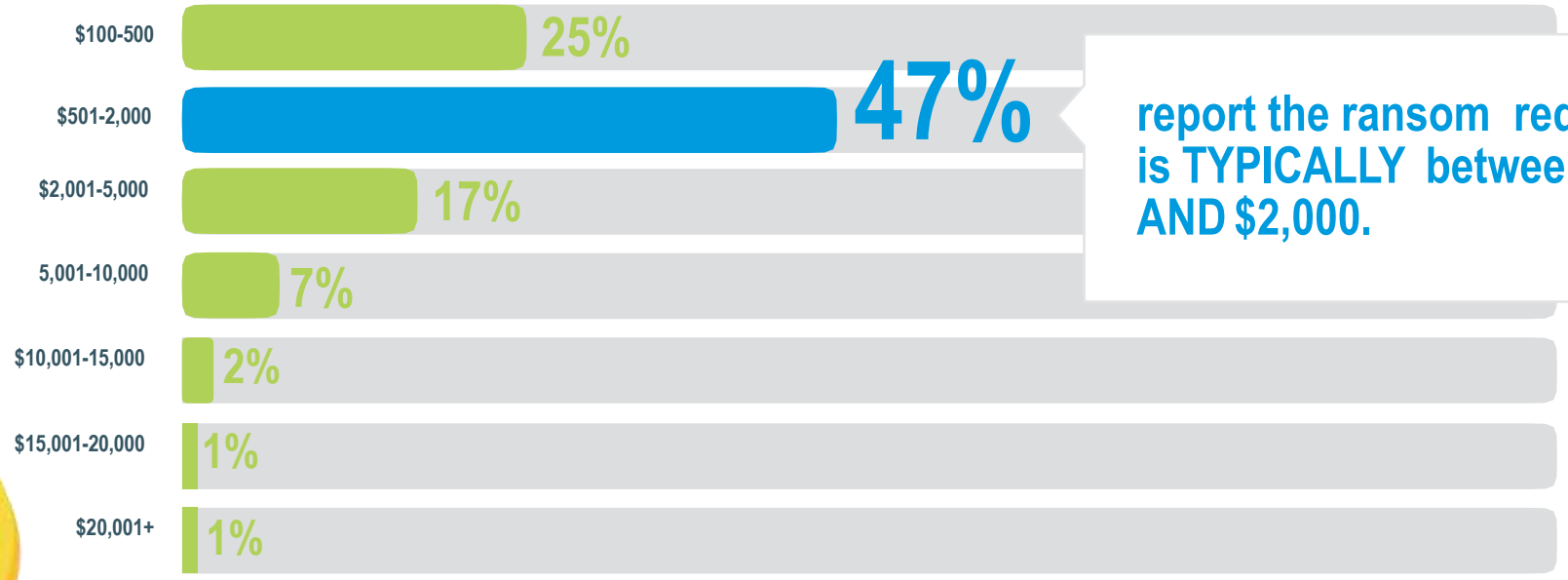
6 IN 7 REPORT SMBs VICTIMIZED BY RANSOMWARE FROM 2015-2017.

6 IN 10 REPORT ATTACKS IN THE 1ST HALF OF 2017 ALONE.

GEO TREND: In APAC, 93% of MSPs report attacks from 2015-2017 and **75%** report attacks in H1 2017.

FOR SMBs, THE RANSOM ISN'T WHAT BREAKS THE BANK

Q: If ransom was requested, how much (on average)?



47% report the ransom requested is TYPICALLY between $500 AND $2,000.

TOTAL RANSOM PAID BY SMBs TO RANSOMWARE HACKERS*:

$709 MILLION.

*Between Q2 2016 and Q2 2017

THE DOWNTIME CUTS THE DEEPEST

Q: Which of the following have clients experienced due to a ransomware attack?

For SMBs, the global **cost of ransomware-related downtime ($191B)** is **2,600X GREATER THAN THE COST OF RANSOM PAID ($709M).**

MAJORITY OF SMBs ARE IN THE DARK ABOUT RANSOMWARE THREAT

Who's "HIGHLY CONCERNED" about ransomware?

90% of MSPs (up from 88% in 2016)

38% of SMBs (up from 34% in 2016)

IN 2017, **90% OF MSPs ARE "HIGHLY CONCERNED" ABOUT THE RANSOMWARE THREAT** WHILE ONLY 38% OF SMBs FEEL THE SAME.

BUT…
I ALREADY
HAVE A GREAT
BACKUP SOLUTION

Hackers Hold SFMTA's Computer Network Hostage For $73K Ransom

Security / Cyber-Attack Knocks Out San Francisco Transit System Fare Terminals

Cyber-Attack Knocks Out San Francisco Transit System Fare Terminals

By Sean Michael Kerner | Posted 2016-11-28 Print

Tweet LinkedIn 5 Like 90 Share 1 Share 95 Email

San Francisco Metro System Hacked with Ransomware; Resulting in Free Rides

Sunday, November 27, 2016 Swati Khandelwal

G+1 68 Like 4.2K Share 2292 Tweet 418 Share 154 share 2925

WE'LL JUST RESTORE FROM OUR BACKUP SOLUTION

NETWORK DOWN FOR TWO DAYS

(FRIDAY & SATURDAY AFTER THANKSGIVING)

SFMTA PROVIDES 735,000 RIDES A DAY

($1 – 2.25 PER RIDER)

TOTAL REVENUE LOST

$50 MILLION/DAY

$1.5 – 3.3 MILLION!!

Detroit Free Press
PART OF THE USA TODAY NETWORK

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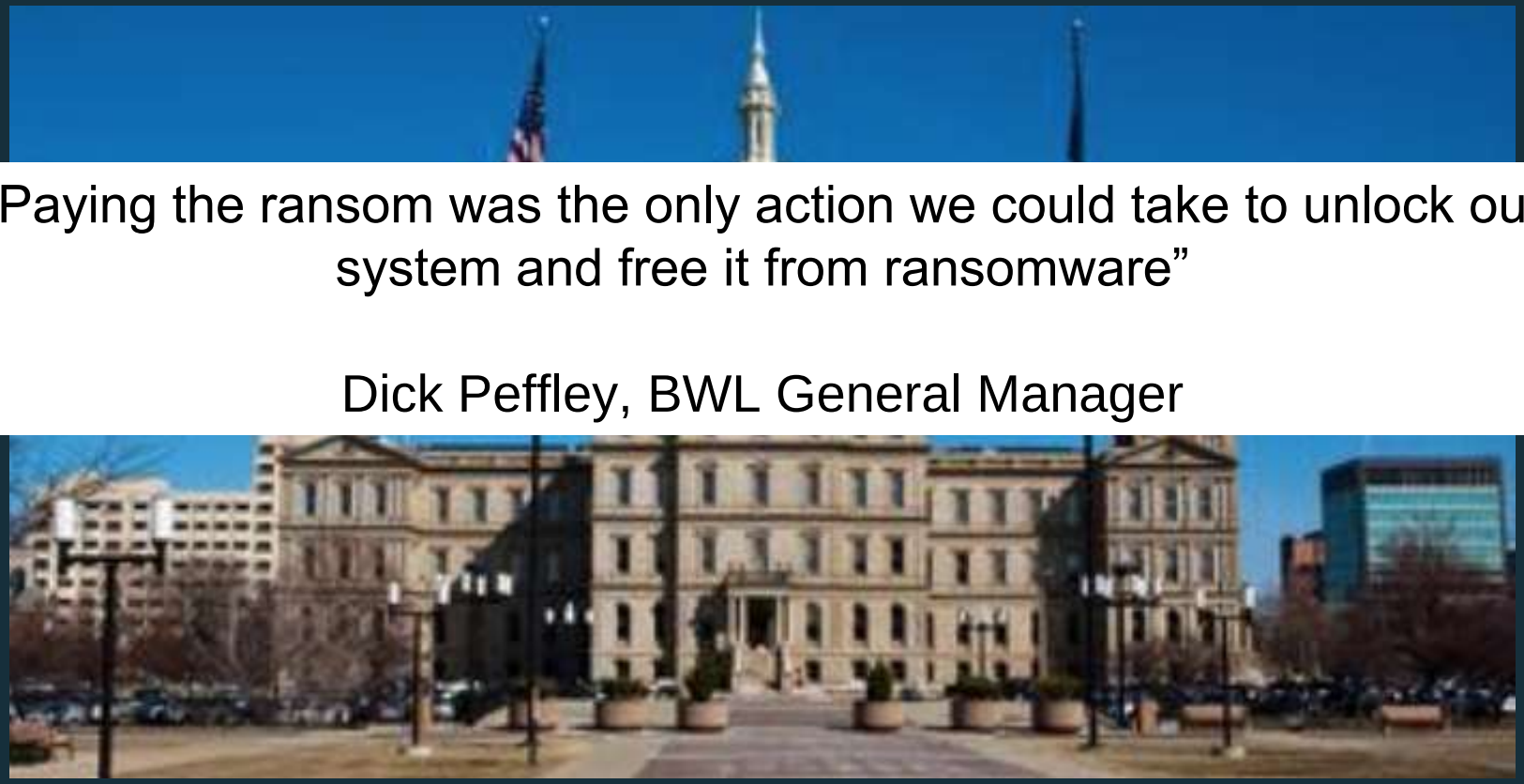
Lansing utility paid $25,000 ransom after cyberattack

Ken Palmer, Lansing State Journal Published 10:06 p.m. ET Nov. 9, 2016



"Paying the ransom was the only action we could take to unlock our system and free it from ransomware"

Dick Peffley, BWL General Manager

Time to recover:

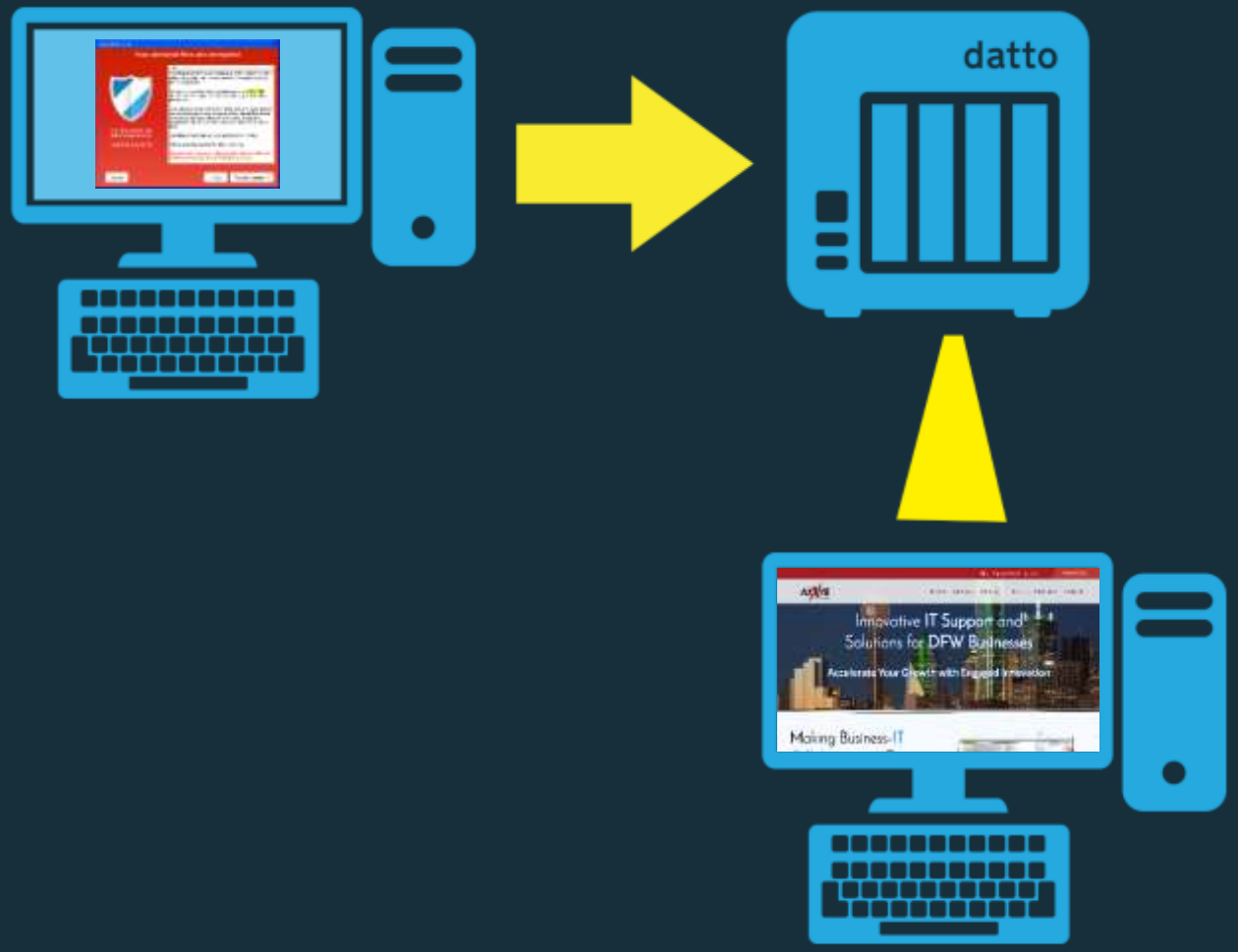
One week

$1.9 MILLION

Insurance Claim:

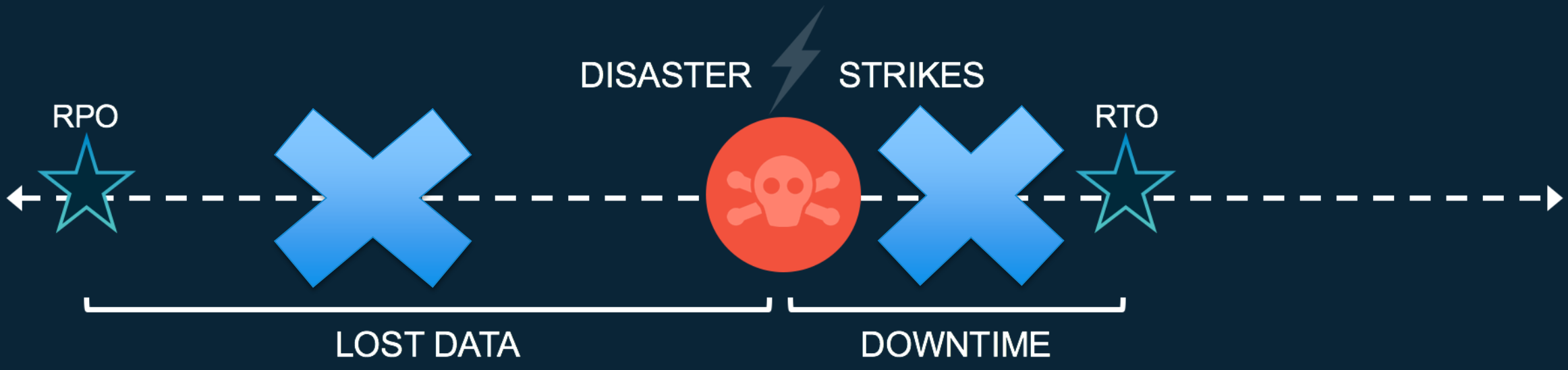
$2.0 MILLION

BUSINESS CONTINUITY TAKES IT ONE STEP FURTHER



Benefits of Virtualization

- Reduces downtime
- Helps your RTO/RPO
- Local and cloud


DISASTER
STRIKES
RPO
RTO
LOST DATA
DOWNTIME

Thank You!