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# Cyber Security

Presented by **Bryan S. Owen PE**

**OSIsoft – Cyber Security Manager**

**eSecurity Planet**

## 2 US Power Plants affected with Malware

In both cases the malware was delivered with a USB drive.

January 16, 2013

**Krebs on Security**  
In-depth security news and analysis

## Chinese Hackers Blamed for Intrusion at Energy Industry Giant Telvent

A company whose software and services are used to remotely administer and monitor large sections of the energy industry began warning customers last week that it is investigating a sophisticated hacker attack spanning its operations in the United States, Canada and Spain

**InformationWeek**

## Saudi Aramco Restores Network After Shamoon Malware Attack

Hactivist-launched virus takes out 75% of state-owned oil company's workstations, signals growing power of attackers with social media agendas.

Matthew J. Schwartz  
Updated: 12:22 p.m. August 27, 2012

**BBC NEWS**  
TECHNOLOGY

## Computer virus hits second energy firm

Computer systems at energy firm RasGas have been taken offline by a computer virus only days after a similar attack on oil giant Aramco.



## DHS warns Siemens 'flaw' could allow power plant hack

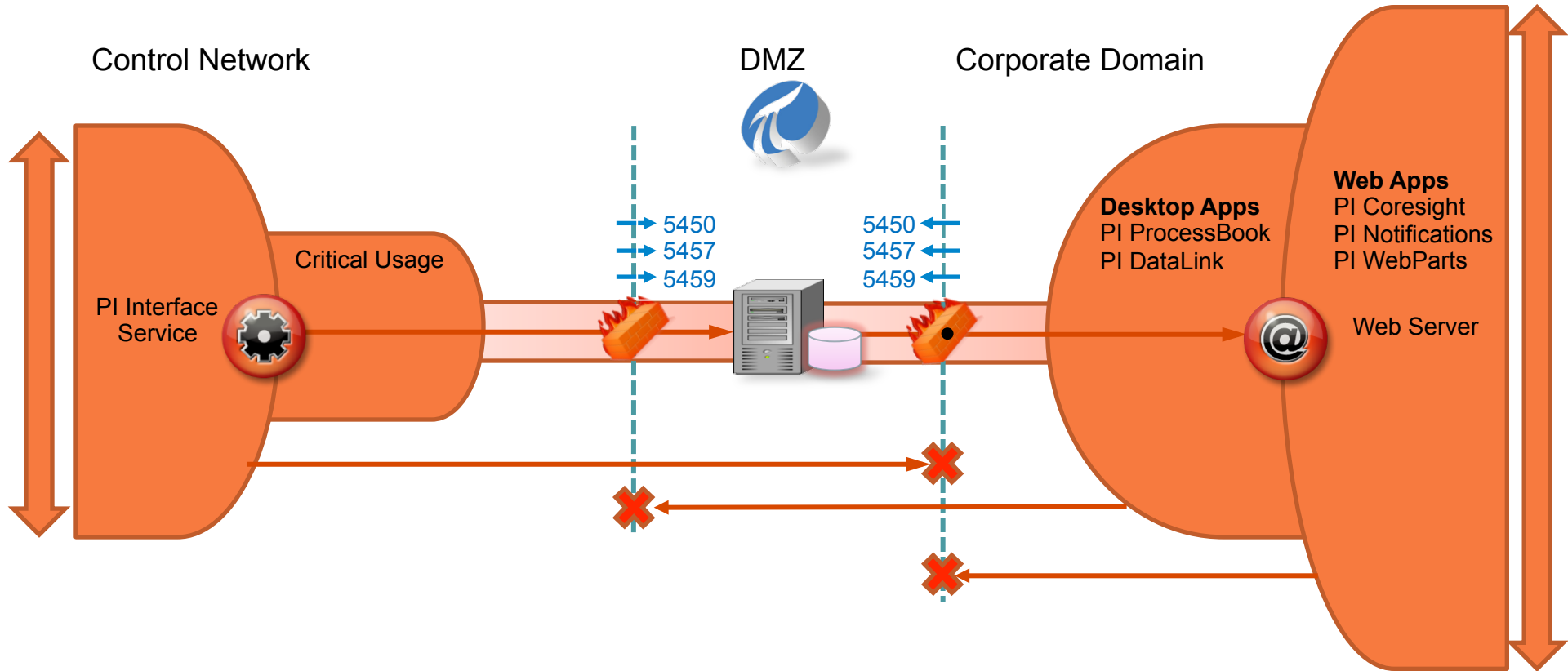
The U.S. Department of Homeland Security is probing Siemens' technology that may allow hackers to attack critical infrastructure such as power plants.

Zack Whittaker  
Updated: 2:44 p.m. PDT August 22, 2012

# Emergency Preparedness is Key



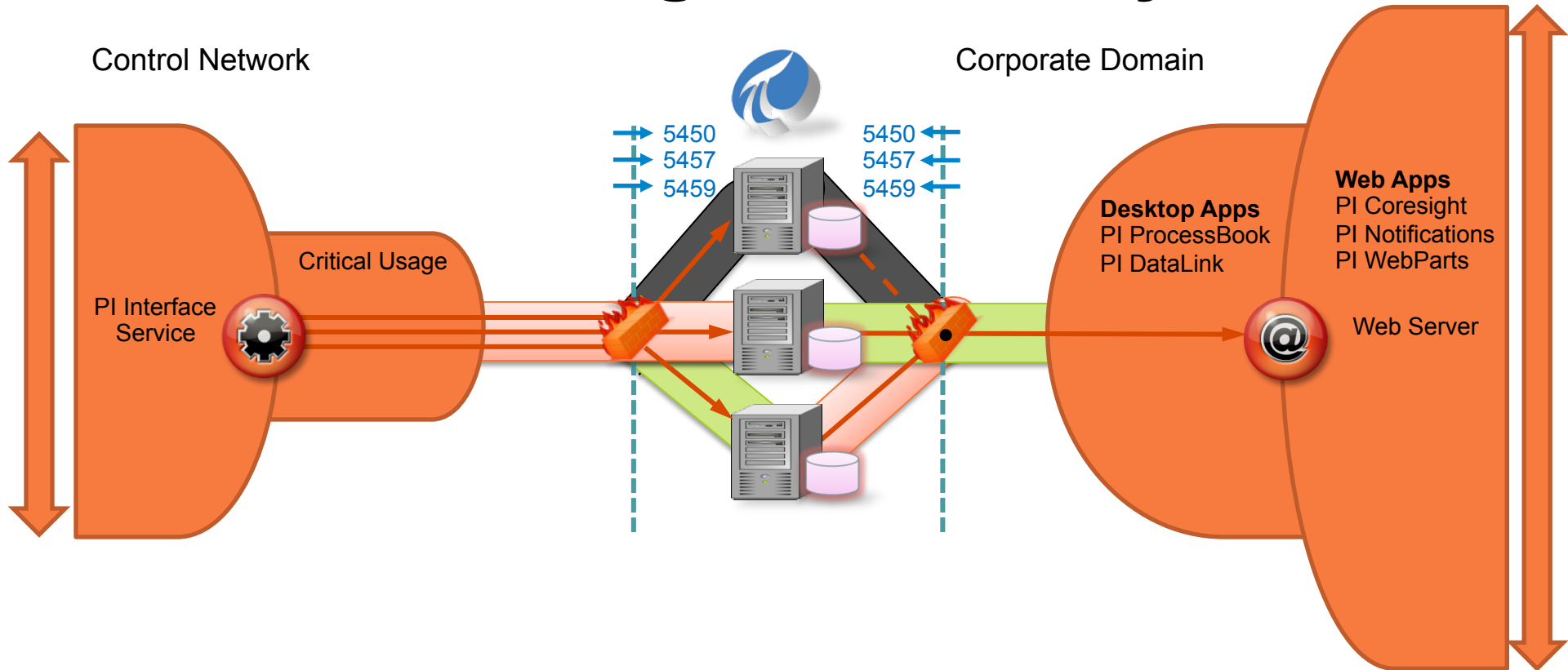
# Pattern 1: DMZ PI



# Pattern 2: PI High Availability

Control Network

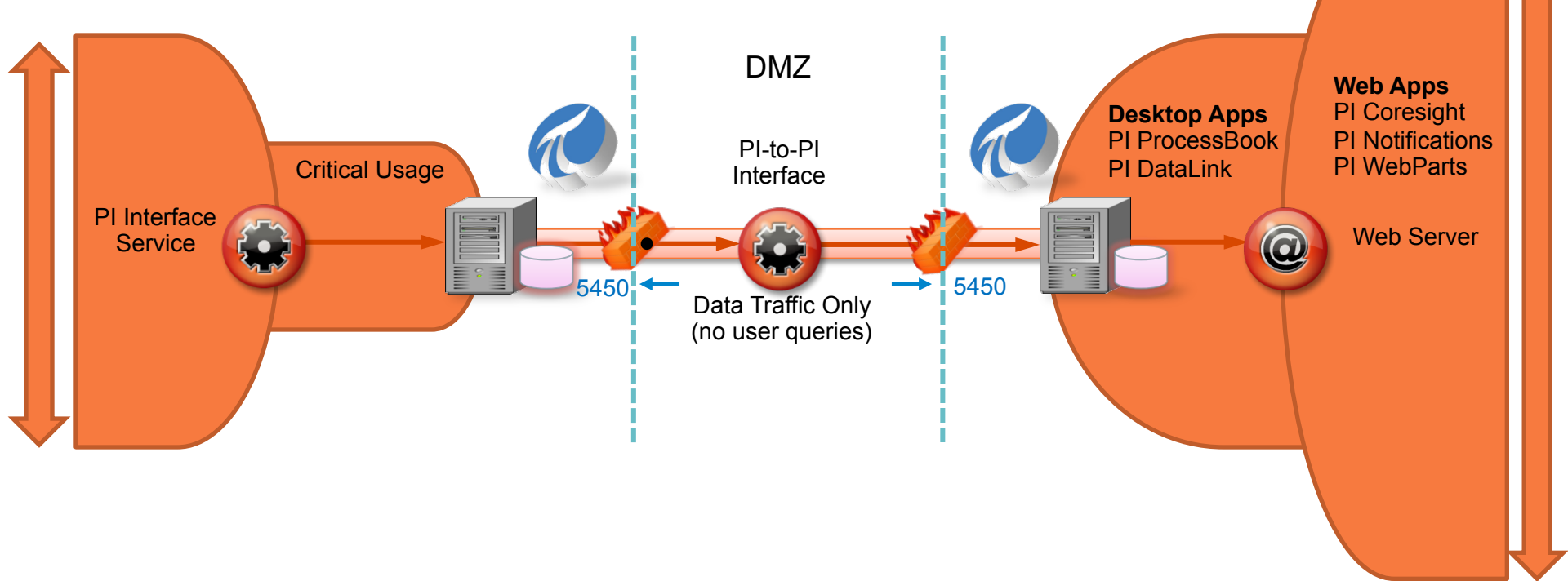
Corporate Domain



# Pattern 3: DMZ PI to PI

Control Network

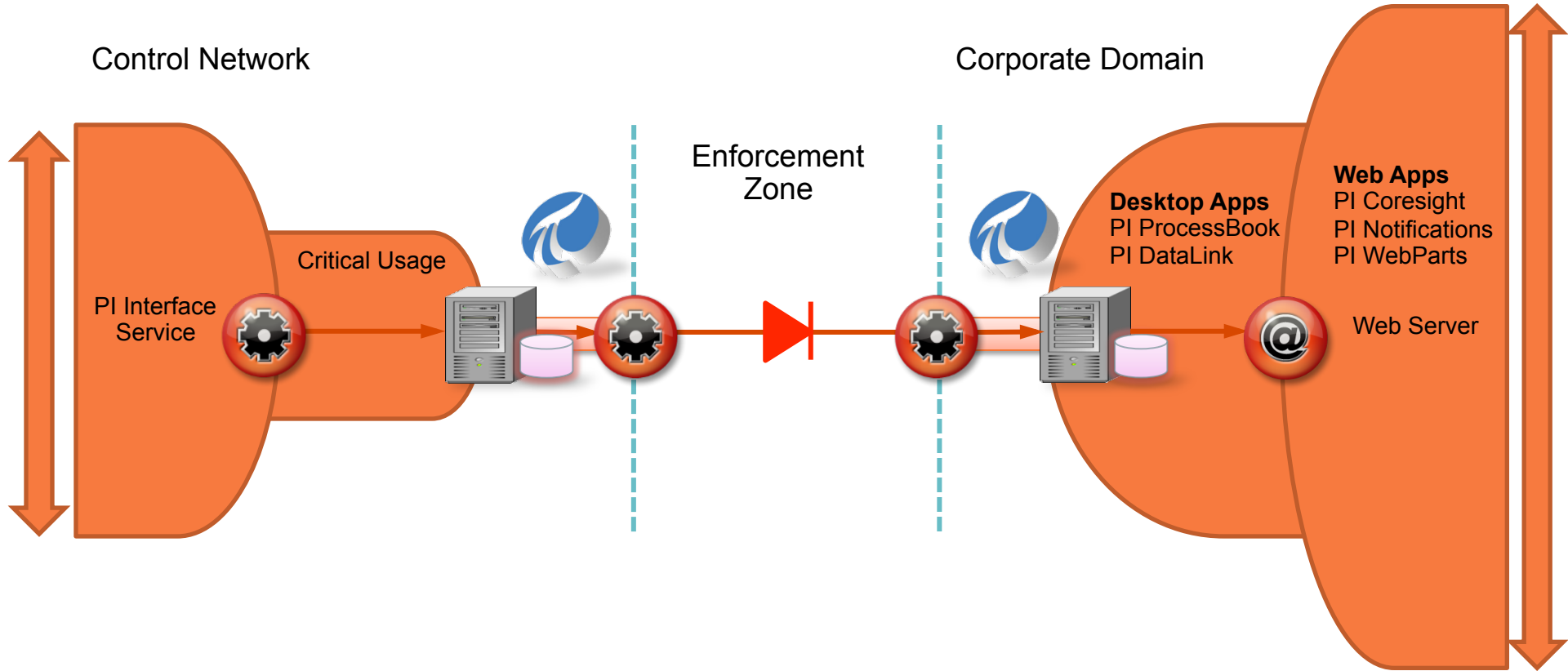
Corporate Domain



# Pattern 3+: Absolute Enforcement

Control Network

Corporate Domain







**Wednesday**  
**(2:40 PM – 3:10PM)**

**WECC Reliability Coordination  
Security Baselines and  
Configuration Management**



**Thursday**  
**(11:20 AM and 11:50 PM)**

**Reference Architecture  
for a Reliable  
PI System Infrastructure**



**Wednesday**

**New Technologies for  
Cyber Security**

**(3:20 PM – 3:50PM)**

**Product Expo PI Security Pod  
(12:35 PM - 5:20 PM)**



**Friday**

**PI System Security Workshop  
(8:30 AM and 12:00 PM)**

**Migrating to PI Server 2012 with  
PI AF and WIS  
(8:30 AM and 12:00 PM)**



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