



PRIBIT

Technology

—
Introduction to Products and Technologies
Focused on ZTA Implementation

Young Rang Kim
PRIBIT Technology CEO/CTO

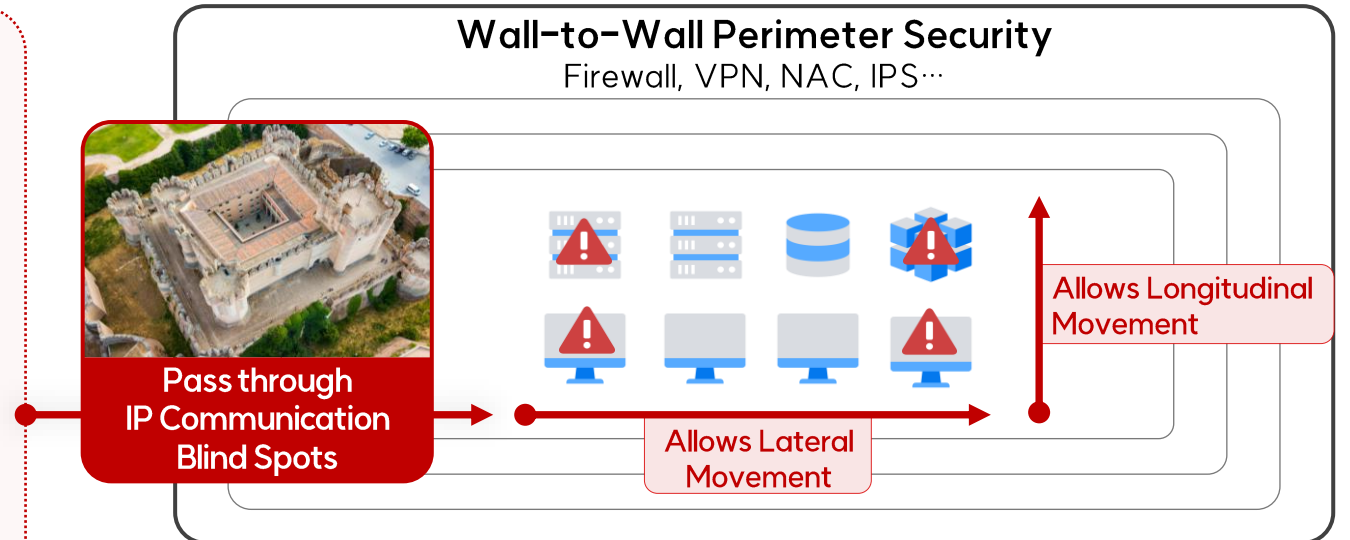
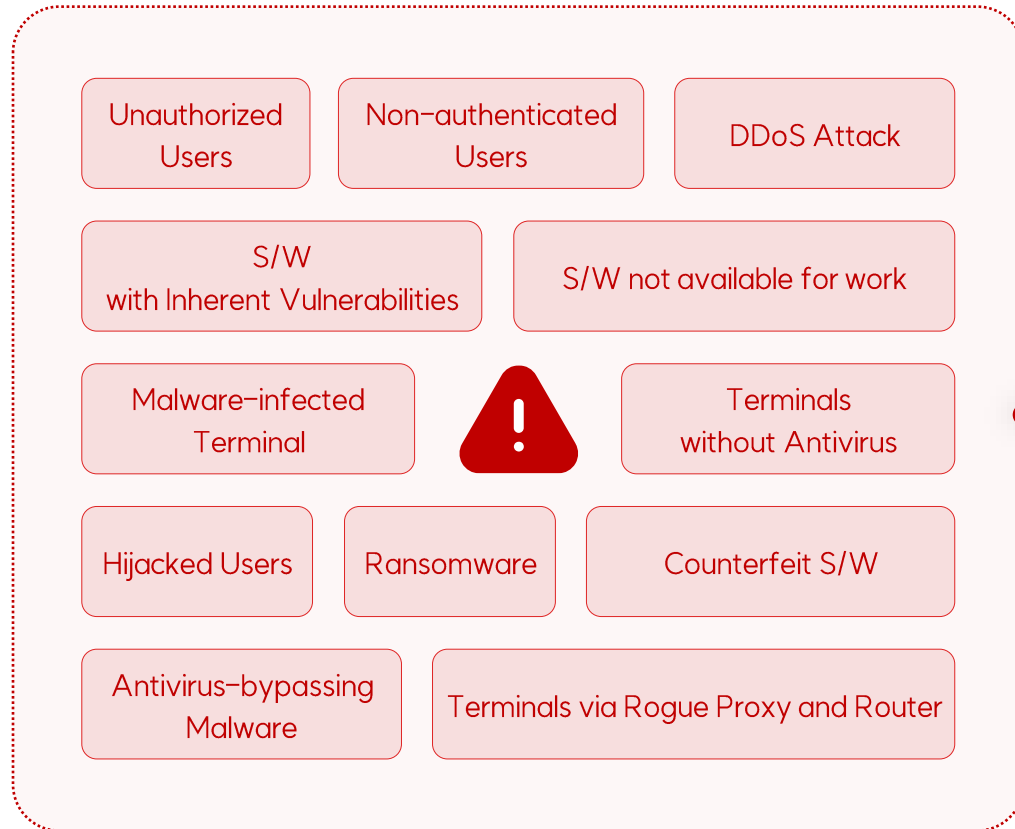
benjamin@pribit.com

01 Problem Statement

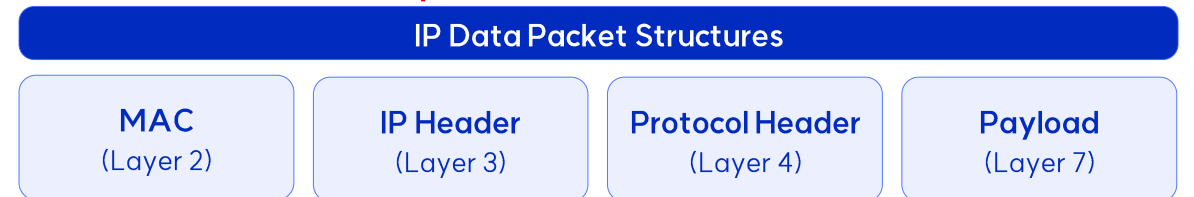
Vulnerable to Hijacking due to Blind Spots in the Perimeter Security Model

Untrusted Networks (Over 288 trillion communicable destinations based on IPv4)

Protected Networks (Cloud, Workspace, Wireless Networks ...)



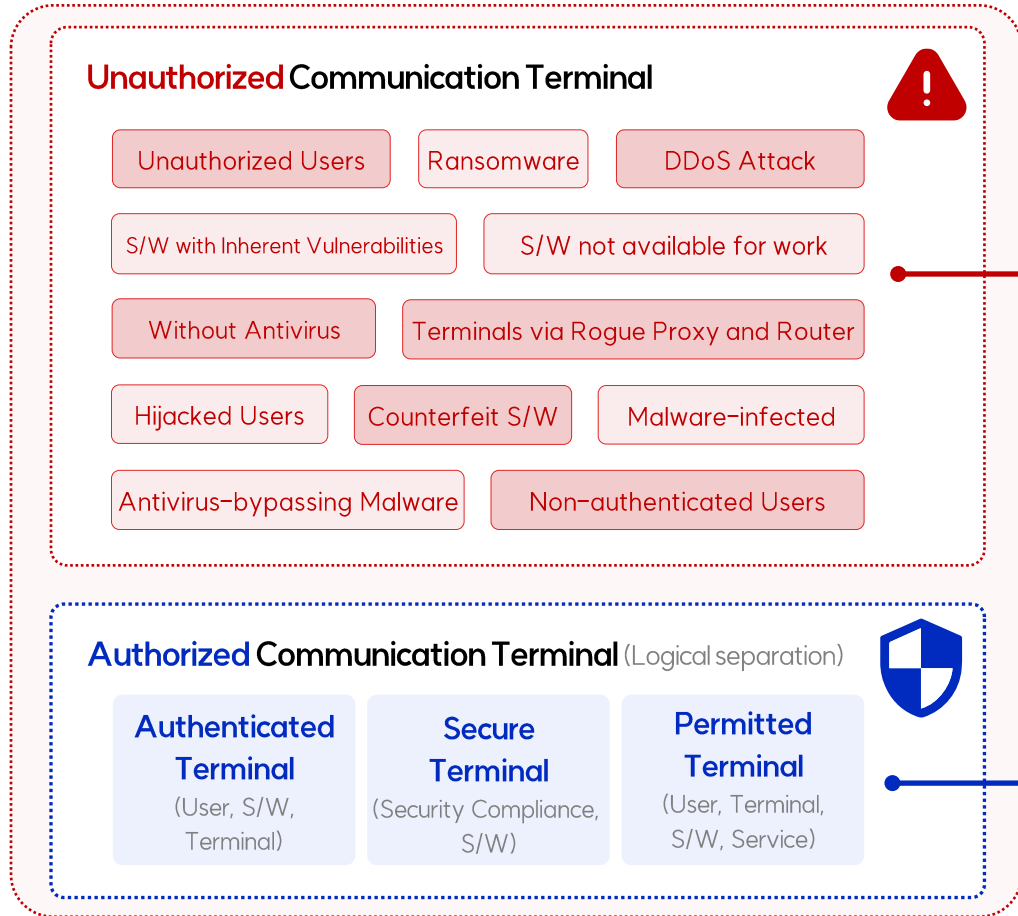
IP Technology Suffers from a Lack of Actual Communication Terminal Identification
"Blind Spots in Communication Control"



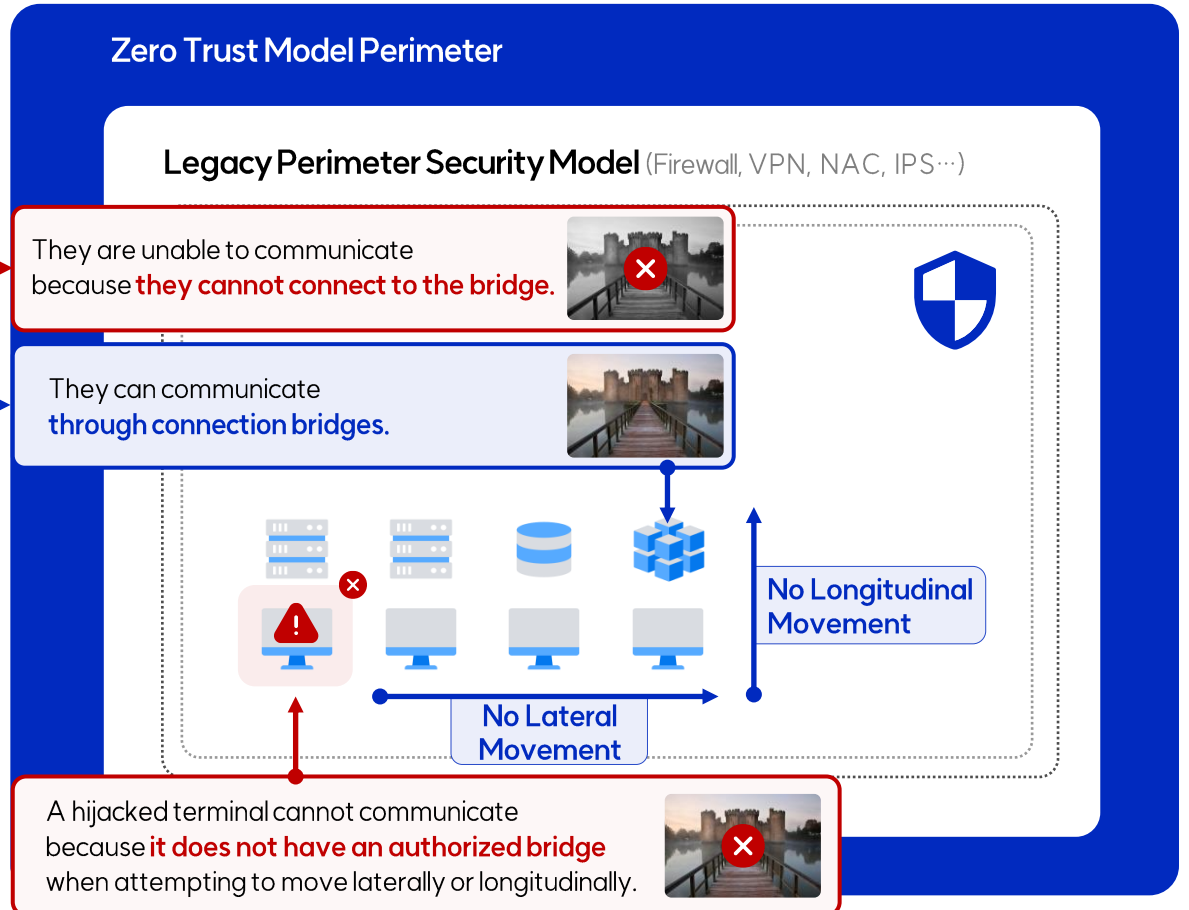
Struggle with Identifying Actual Terminals, Resulting in Surpassed Technical Improvement Limits and Thresholds
DDoS, Ransomware, Zero Day Attack, Session Hijacking, MITM, Information leakage... Many Security Incidents Involve "The Network"

How to Improve the Perimeter Security Model

Untrusted Networks

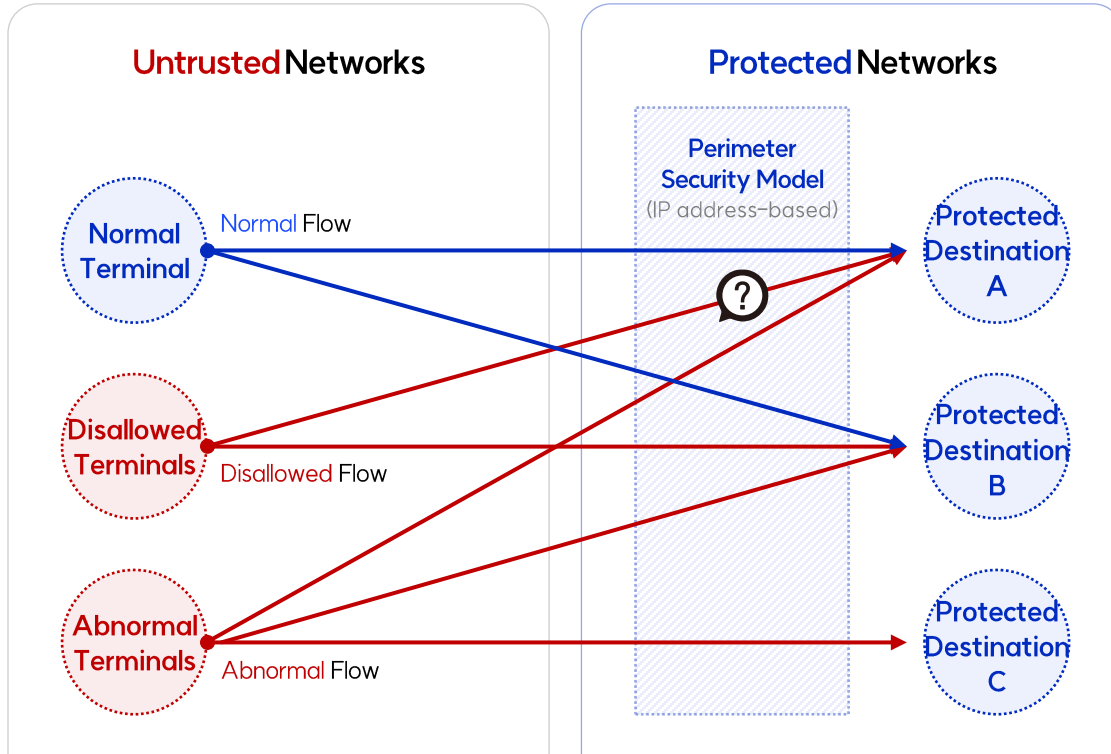


Protected Networks (Cloud, Workspace, Wireless Networks ...)

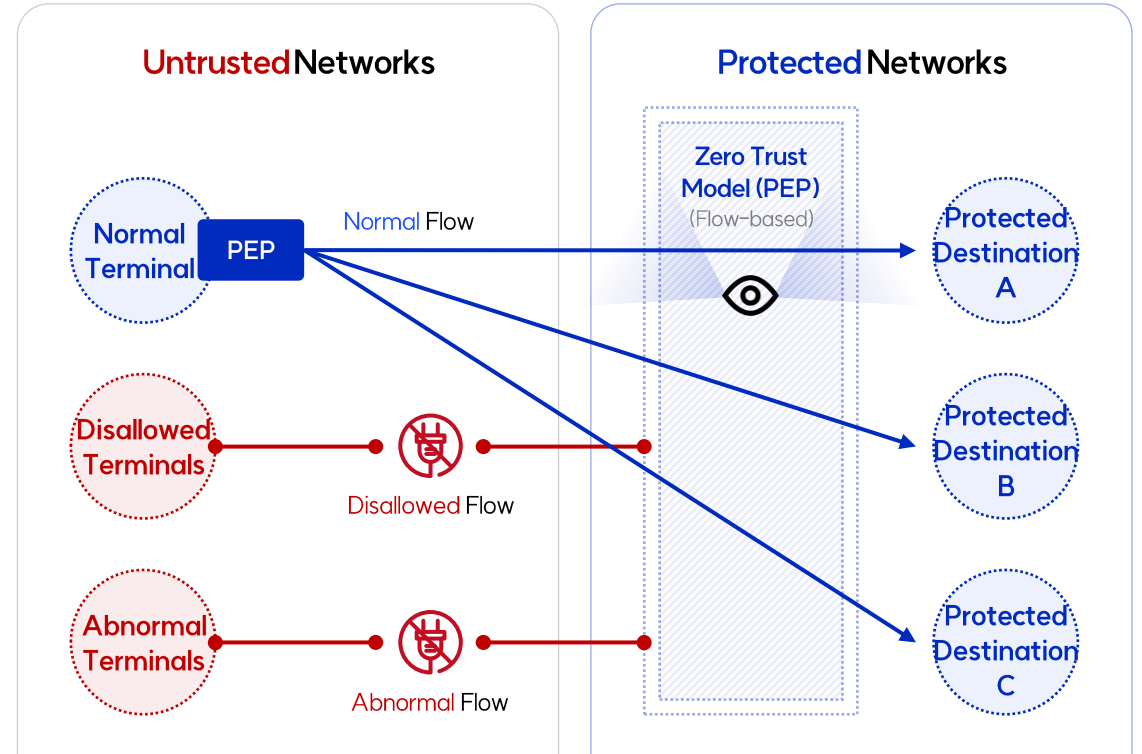


The Zero Trust Model logically Separates Unauthorized and Authorized Communication Terminal

In the Perimeter Security Model (AS-IS)



In the Zero Trust Model (TO-BE)



- **Inability to Identify and Control Flows** between Terminal and Destination
 - Identify Terminal and Destination by IP Address
 - Set Policies and Control based on IP Address
 - Requiring Massive Amounts of Log Recording and Analysis

- **Identify and Control Flows** between Terminal and Destination
 - Identify as Terminal, Users, S/W, IP Addresses, and Logical Units
 - Set Policies and Control based on Flow
 - Intuitive Flow-Driven Log Recording and Analysis Scheme

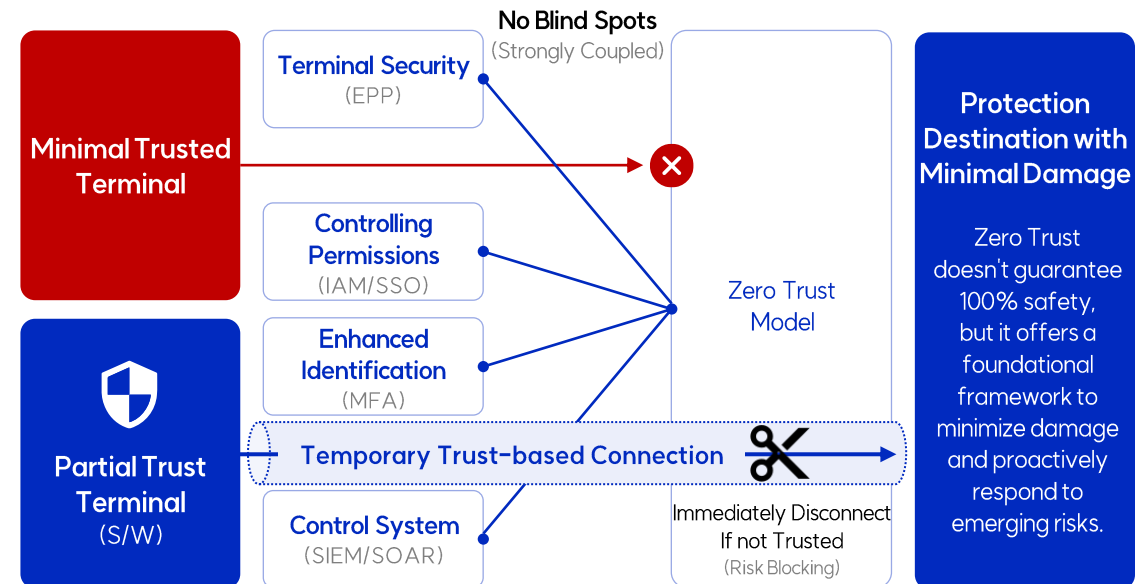
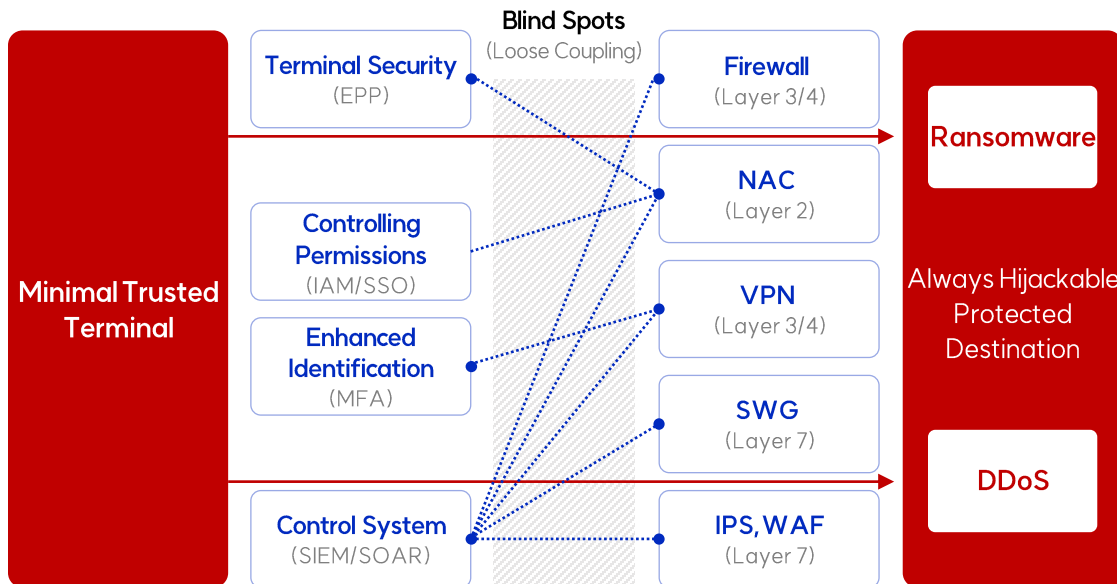
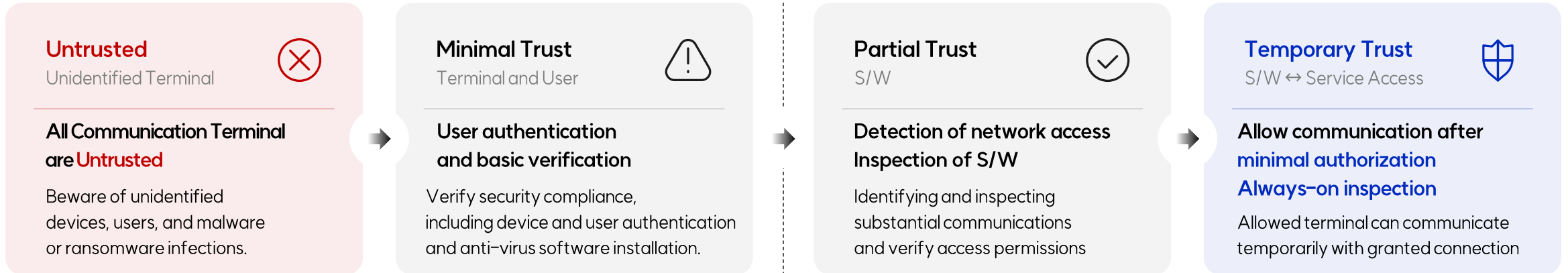
02 Introduction to Technologies around the Zero Trust Model

Zero Trust Mechanisms

In the Perimeter Security Model

| A Paradigm Shift in the Perimeter Security Model |

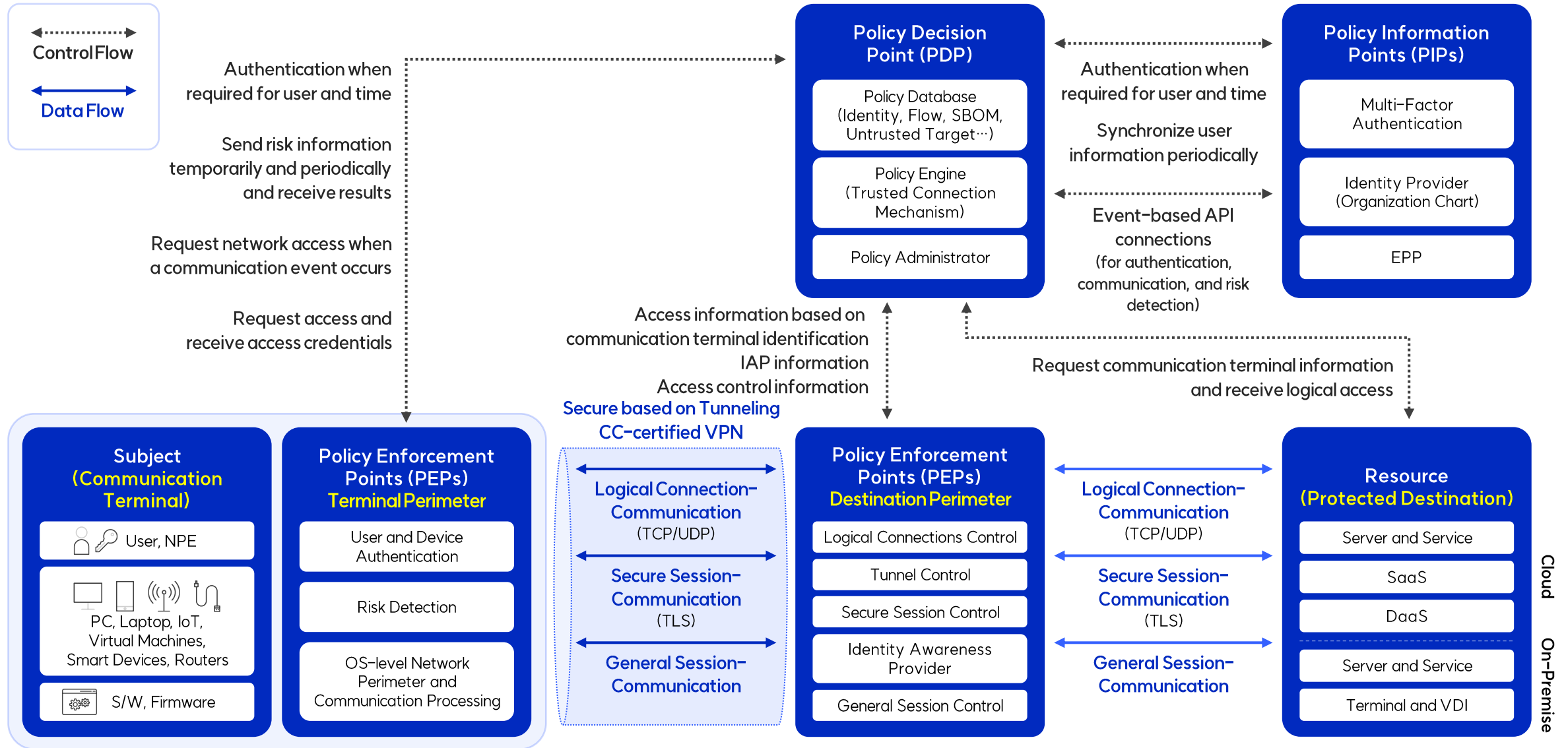
In the Zero Trust Model



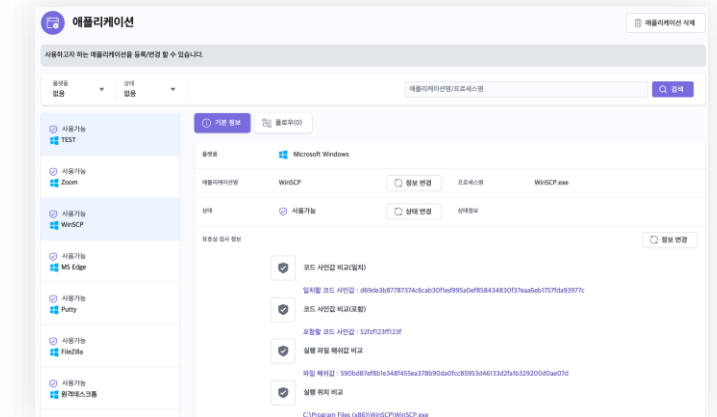
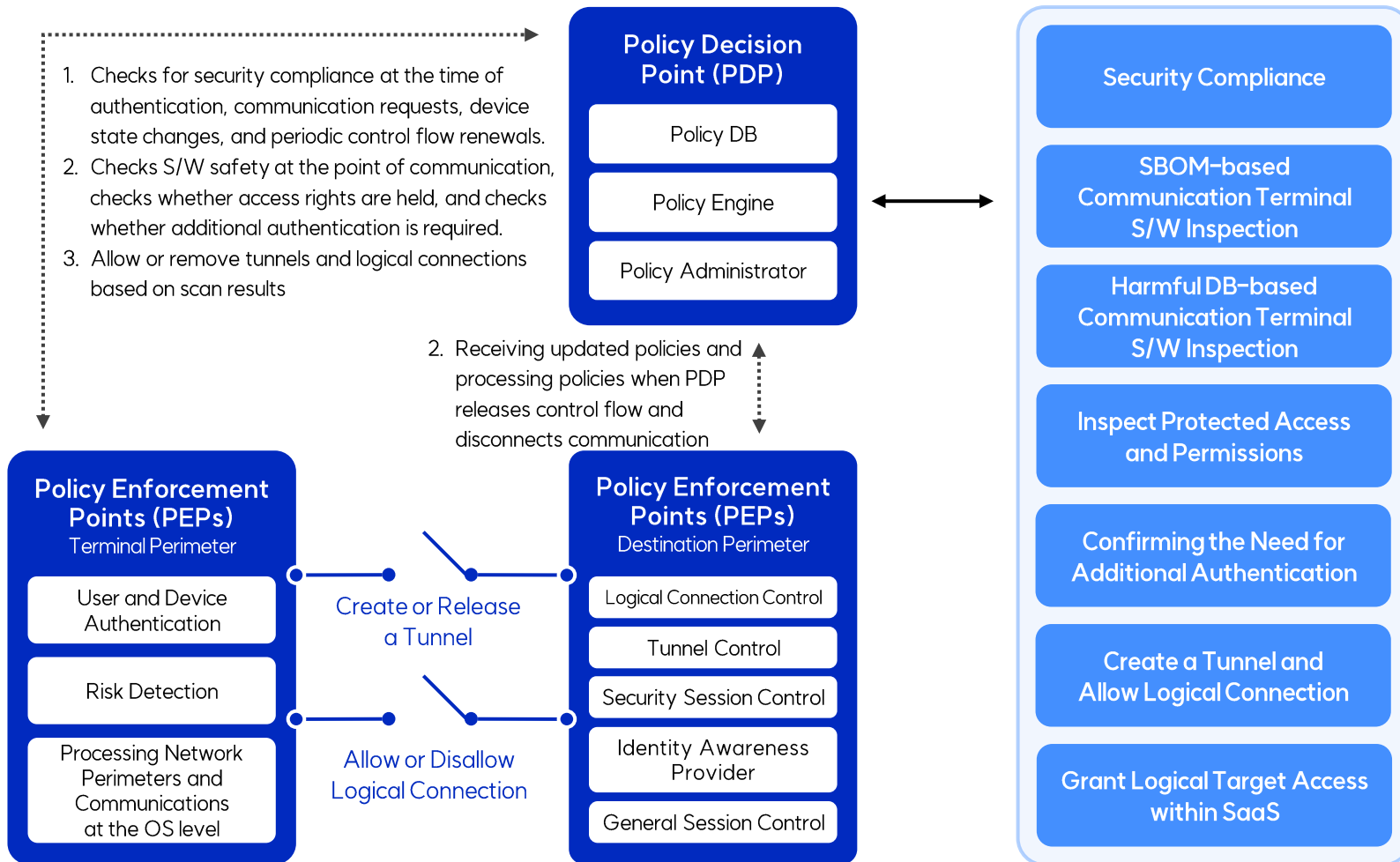
02 Introduction to Technologies around the Zero Trust Model

Zero Trust Architecture Implementation Elements

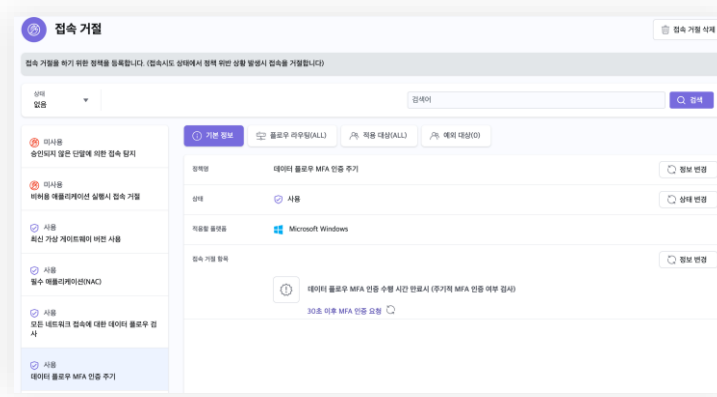
(Based on the Zero Trust Demonstration Model 'NIST SP 1800-35', Component Flowchart)



6. All Resource Authentication and Authorization are Dynamic and Strictly Enforced before Access is Allowed



S/W Management



Security Compliance Management

03 Demonstrating a Zero Trust Model In Korea (Ministry of Science and ICT)

Objectives

A Globally-focused Zero Trust Model

**Next-Generation
Communications Experiences**

Secure Wireless Networks and
Validate Cloud-based Next-Generation Communications Control
Infrastructure

Communications Infrastructure
Centered Zero Trust Model

Work From Anywhere

Enable Public Cloud and On-Premises Work Environments
that Comply with Korea's Specialized Security Regulations

Build a Cloud-centric
Service and Work
Environment

**National
Security Governance**

The Security Governance Scheme that Enables Incremental
Implementation of the Maturity Model by Integrates SBoM and Existing
Security Models

Combine Various
Security Models for
Flexible Scalability

Demonstration with National Critical Facilities



Korea's Major Wired and
Wireless Service Company



Organizations Working on
Digital Platform Government
Projects

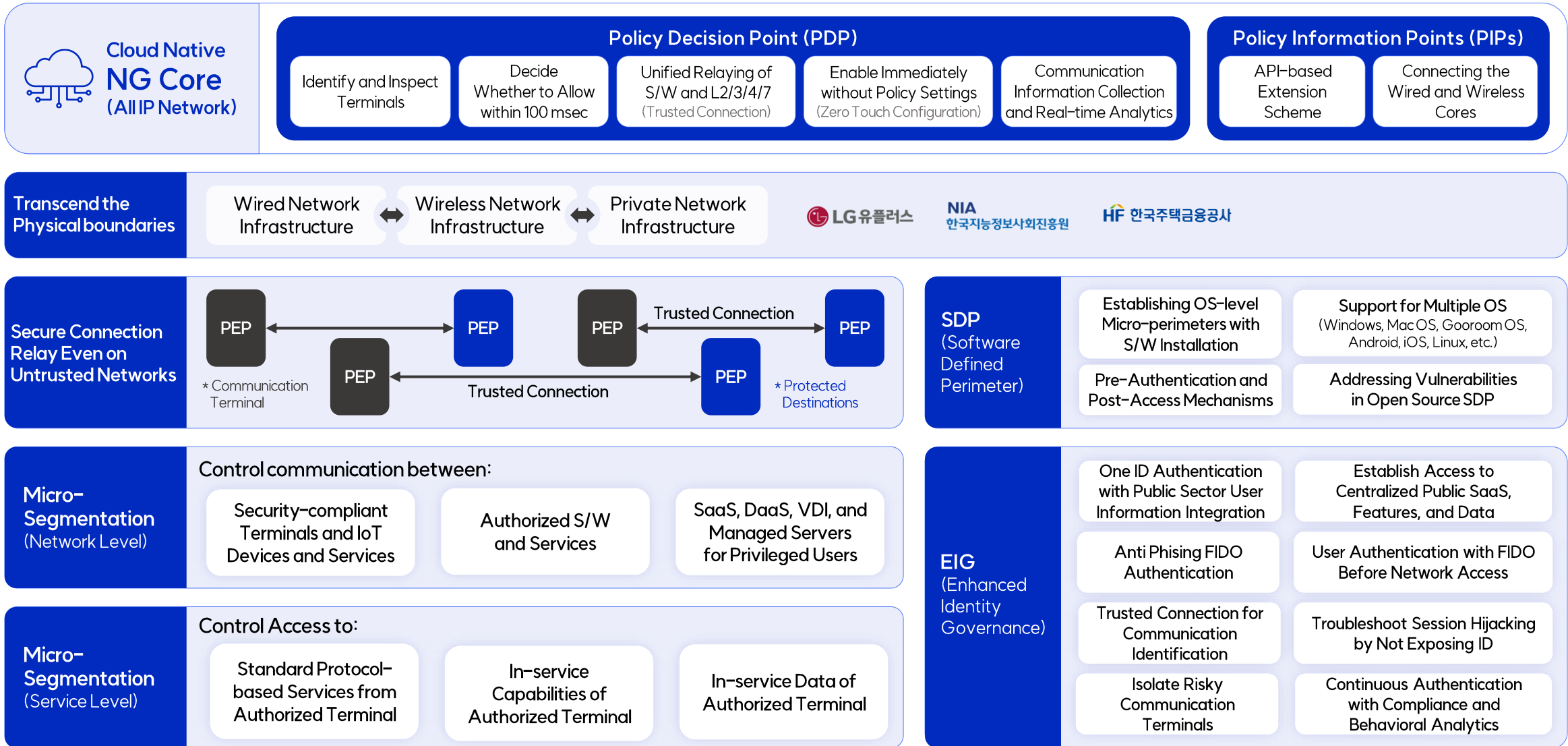


FSC-affiliated
Organizations that
Provide Housing
Guarantees and Loans

Serious National
Losses Occur due to
Cyber Attacks

03 Demonstrating a Zero Trust Model In Korea (Ministry of Science and ICT)

Demonstrate the Next Generation of Zero Trust Telecommunications



Please question to email below

benjamin@pribit.com



Thank you