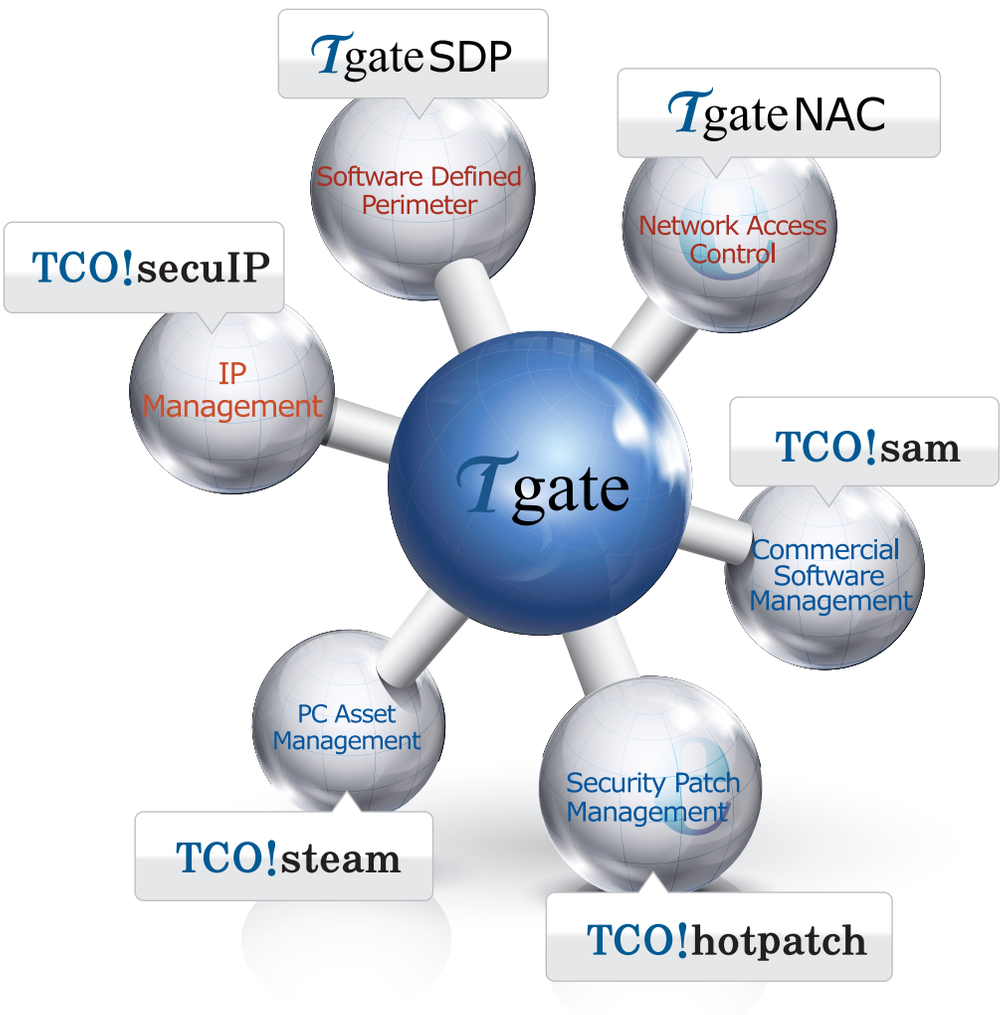
TgateSDP



Endpoint security specialist

SDP, NAC, IPMS, PMS

since 1995
MLsoft
Pioneer of Endpoint Management

Powered by
ETRI
Electronics and Telecommunications Research Institute

STEP 01 Tgate SDP
Background

As the 4th Industrial Revolution and the 5G era evolve, more and more information is being collected from various treminals such as IoT as well as PCs.
It is rapidly changing from a closed on premise computing system to an open cloud system and a super intelligent society using Big Data and AI.
The success or failure of this is based on real-time security based on a super-connected Internet network.

STEP 02 Tgate SDP
Market Needs

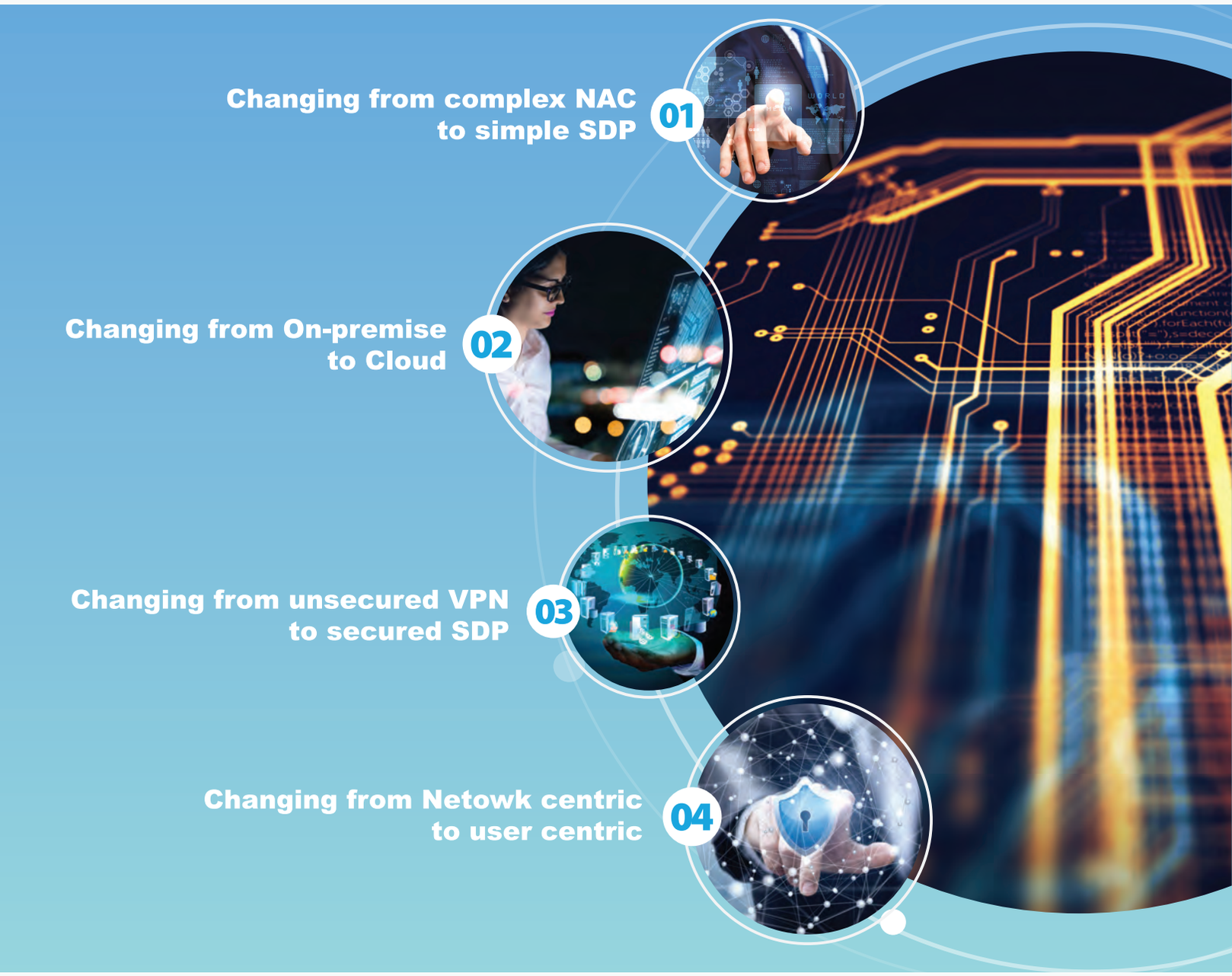
Internal network should be accessible to those with authorities anywhere.
It is necessary to be able to communicate securely in an environment where the Internet is available anywhere in the world.

Changing from complex NAC to simple SDP 01

Changing from On-premise to Cloud 02

Changing from unsecured VPN to secured SDP 03

Changing from Netowk centric to user centric 04



02 Security Paradigm Shift

TgateSDP

Continuously improving and enhancing endpoint security through management, control and security for PC, laptop, mobile and IoT devices which are the main medium of information.

- Change from simple management to policy-based control (NAC)
- Change from on-premise system to cloud system
- Change to use anywhere in the world in limited area use

Trend of transition from network centric security to identification centric security

- Network Centric Security

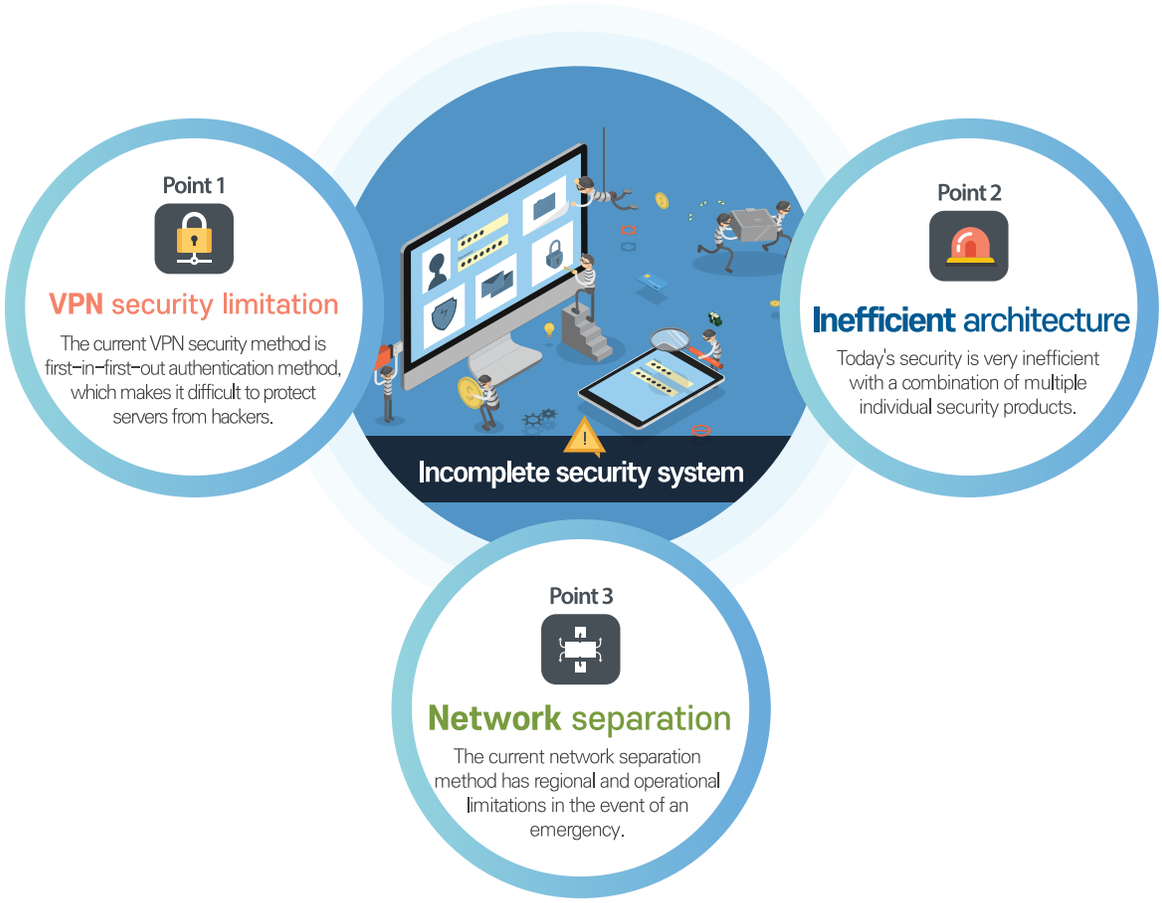
↓

User Centric Security

Need for unified control of current independent operating security systems

- Network : VPN, FW, IPS, IDS
- Threat : DDoS, APT
  Brute Force, Stolen Credentials
- Endpoint : NAC, Network separation

03 Problem



MLsoft TgateSDP

Powered by ETRI TAPS

04 SDP Necessity

TgateSDP

1 VPN security issues

More vulnerable to the labor and cloud era, making it difficult to secure boundaries effectively. Existing VPN access is overly permissive, which allows remote workers to access more networks than is required to complete a task, resulting in unnecessary and overly vulnerable network resources.

2 Zero trust network

Reduce the risk of network security by preventing users and devices from exposing critical applications and resources to everyone until they are authenticated and authorized.

3 User-centric-network

Change from network-centric to user-centric, strengthen security and provide flexibility of control and management

4 Accessibility

Enables efficient connection to the IT services users need with simple logins without the need for cumbersome management requirements (firewalls, IPSs, etc.) or hardware costs.

5 Scalability

Scale seamlessly in the cloud, avoiding the need for expensive hardware, depending on the number of users or the volume of applications they nee to access.

6 Effective Price

Easily deploy in complex IT environments and easily extend security when needed without the need to purchase expensive equipment or rent additional equipment

05 Proposed Solution

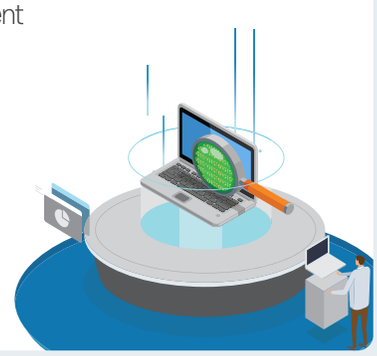
Trust Connectivity method that permits network access only by authorized users / terminals through pre-authentication and multi-level access control

Trust Connectivity

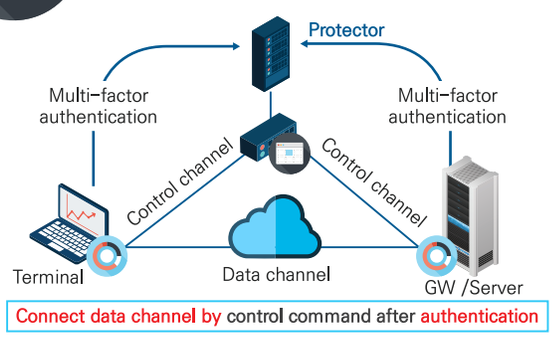
Multi-factor authentication ▶ Verify ▶ Connect

MLsoft + ETRI

Manage and control all connected peers as manager, enabling efficient and reliable management



Separated operation of managed network and data networ controlled with end-to-end trust tunnels



Connect data channel by control command after authentication

Configure Black / Dark network in the protected domain to prevent resource consumption by a robust DDoS protection design that is not exposed to an attacker

06 Tgate SDP Benefits

TAPS(SDP) + NAC

It is seamlessly combines ETRI(Electronics and Telecommunications Research Institute)'s Powerful TAPS (Trust Access Protection Solution) and MLsoft's Tgate NAC, so simple to deploy, easy to use, and not expensive World's First SDP that combines Software-Defined Perimeter(SDP) and Network Access Control(NAC)

User centric security

Change from network-centric to user-centric

Cost Saving

SDP can eliminate the need to use many individual security solutions.

Availability

Available in both On-Premise and Cloud environments

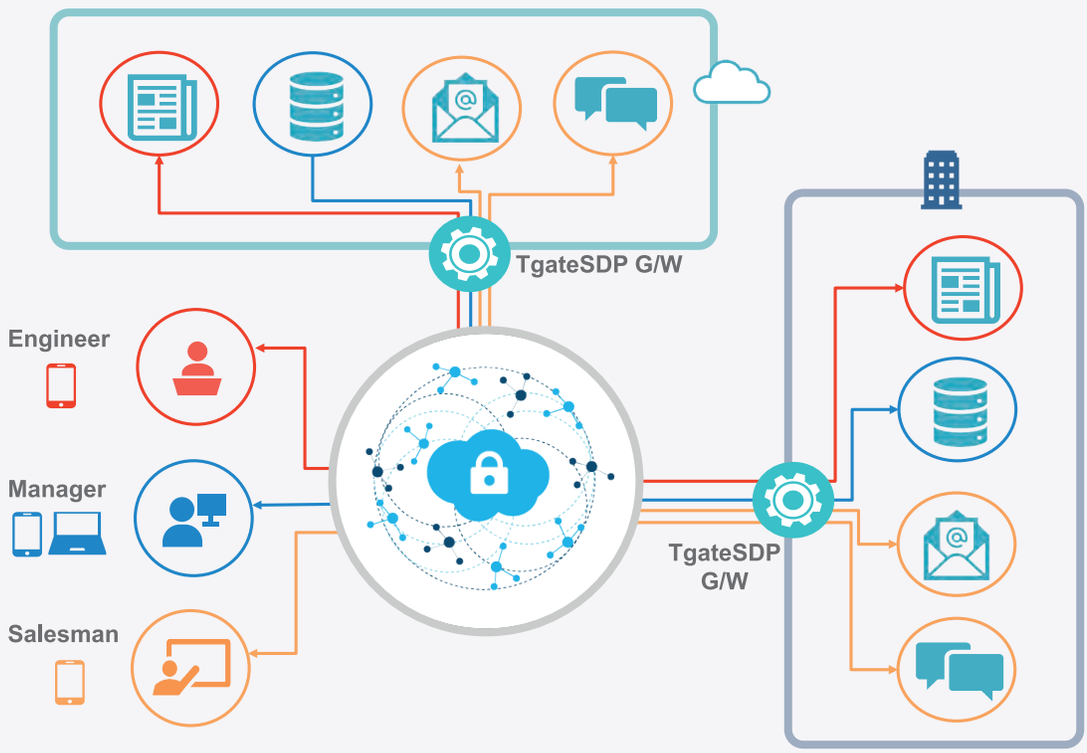
Easy SDK

Provides SDK for easy agent development and AppBinding

Flexible

Various security networks can be configured using the software defined method

07 Tgate SDP Diaglam



01 Is your service needed? (Why SDP?)

- The SDP is essential security service for cloud, bigdata and AI.
- Industry and business environment are changing from on-premise to cloud.
- The endpoint security solution is changing from complex NAC to simple SDP.
- The internet network security is changing from unsecured VPN to secured SDP.
- The security policy is changing from Network centric to user centric.

02 Who will pay for your service? (Market)

- BYOD users for Cloud and/or On-premise via internet network
  – Military, Government, Finance, Enterprise, Hospital, Logistics, SMB etc
- Mobility industries – Connected Car, Drone
- VPN users – Replace for next security
- Home users for IoT security – Access Point, Set-top-box, IoT camera etc

03 What's your unique difference? (Why Tgate SDP?)

- Perfectly User-centric by Policy – Easy to manage and control
- Simple but complete IAM with/without AD(Active Directory) or LDAP
- Double protected controller and multifactor authentication by TAPS
- Support easy App-Binding
- Easy implementation and price effective

since 1995
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