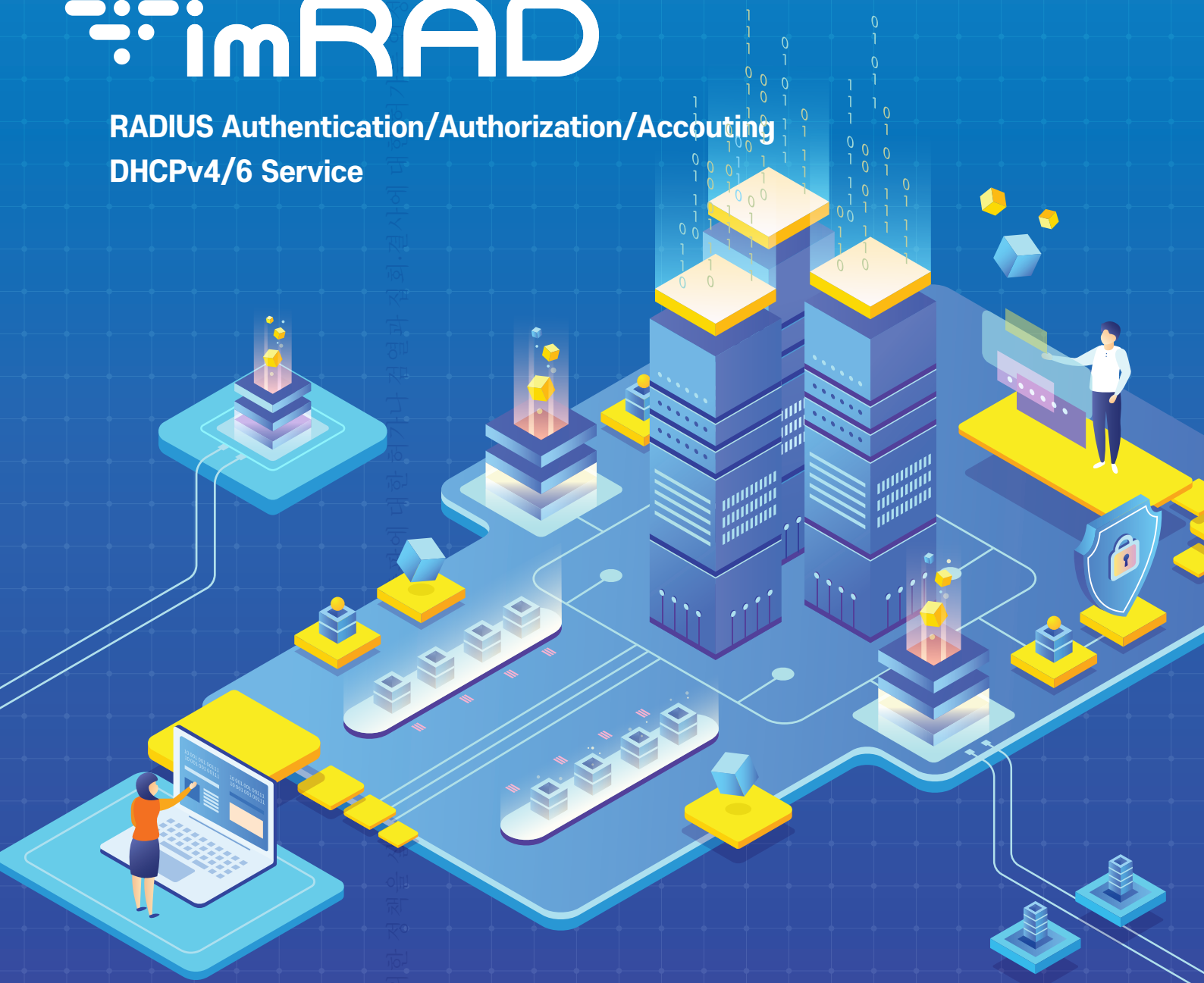


imRAD

RADIUS Authentication/Authorization/Accounting
DHCPv4/6 Service



RADIUS

- ✓ Proxy(Eduroam)
- ✓ VPN Auth
- ✓ Wireless Auth
- ✓ Wired Auth



DHCPv4/v6

- ✓ Wireless
- ✓ Wired

- RADIUS : RADIUS Service
- DHCP : DHCPv4/6 Service
- USER INTERFACE : User interface based on https
- CLI : Dedicated Command Line Interface

OS



Database



Web Server



Security



✓ RADIUS Authentication/Authorization/Accounting

- 802.1x EAP Authentication
- Pass-Through Authentication (example : Customer DB)
- imRAD Local Database Authentication : MAC addresss, Username / Password

✓ RADIUS VPN Authentication

- Pass-Through Authentication (example : Customer DB)
- imRAD Local Database Authentication : MAC addresss, Username / Password

✓ Pass-Through Authentication(PTA)

- Supports multiple DBMS and LDAP servers

DBMS	LDAP
- Oracle, Tiberio	- AD Domain service
- MSSQL, Postgre SQL	- AD Lightweight directory service

✓ Pass-Through Authentication cache

- Save accepted User-Name by the PTA for the specific days.
- Username / HASH(Password, 'SALT-XXX') : User-Passwords are safely stored : SHA256 with salt
- Prevent from heavy traffic to the Cutomer DB.

✓ Failover

- Active / Active or Active / Standby

✓ Accounting & Postauth

- Provides the Accounting log
- Provides the postauth log

DHCPv4/v6

Dynamic Host Configuration Protocol

✓ IP Assignment by the RADIUS User-Name

- Assign IP address by authenticated User-Name
- Can detect who has the IP address
- IP Reservation by User-Name : Can assign the same IP address regardless of host. : Not the RADIUS DHCP attribute but the DHCP : Many Client do not support the RADIUS DHCP attribute

✓ User Interface

- HTML(HTML5) User interface on HTTPS
- Administrator / Operator : Local / RADIUS LDAP Login
- Korean / English language supports
- Search several log : HOST, DHCP, Accounting and so on
- System managemnet / Dashboard Display events and status

rfc 2131 (DHCPv4)
rfc 3315 (DHCPv6)

DHCPv6
stateful/stateless

DHCP POOL
Realtime Assignment

IP Address
Auto-Reservation

Architecture

