

회사소개 및 포트폴리오





본사

❖ 설립연도	2026년 4월
❖ 대표	임 정 빈
❖ 소재지	17095, 경기도 용인시 기흥구 중부대로 184 히스유타워 A동 1514호
❖ 사업분야	서버, WiFi, AI·IT Infra, Virtualization, Development
❖ 정보	Home Page : www.pvcorp.co.kr T. 031-548-1740 F. 070-4009-2091



9명

157 Y+



Aurora



Kaytus



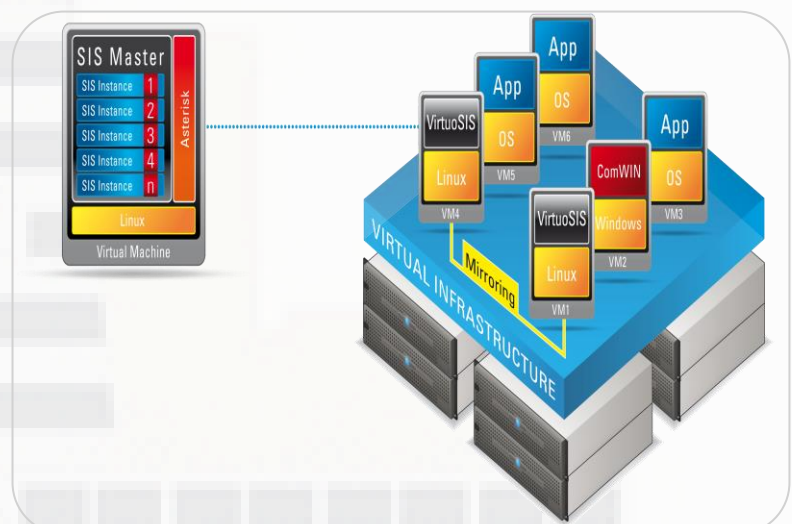
Ruckus



Development



AI·IT Infra



Virtualization



● Partner ●



● Customer ●



E6000 CER CMTS(Converged Edge Router)

GEN 2



E6000 Converged Edge Route 는 CCAP (Converged Cable Access Platform) 장비로 샤시당 1000+ DS 용량을 제공하여 채널당 비용을 줄이면 서 빠른 속도로 더 많은 서비스를 제공합니다.

- 전체 21 슬롯의 고집적 솔루션
- Cable 망에서 Wire Speed의 네트워크 성능 보장
- 유연한 서비스 제공(선택적 상향과 하향 비율)
- 높은 수준의 안정성, 신뢰성, 확장성 제공
- N + 1 Hitless CAM sparing
- 전체 모듈 이중화 지원(SCM, RCM, PCM, FAN, PWR)
- 무중단 Fail-over로 99.999% 가용성 보장
- DOCSIS 3.0 서비스 및 채널 본딩

○ Upstream Cable Access Module(UCAM-2)

- 12 SC-QAMs – Physical port
- 288 SC-QAMs – Module(24 physical port)
- 5~204Mhz Upstream Passband(up to R5.0)
- 2 x OFDMA blocks – Physical port(96Mhz, Oriented S/W)
- N + 1 Sparing

○ Downstream Cable Access Module(DCAM-2)

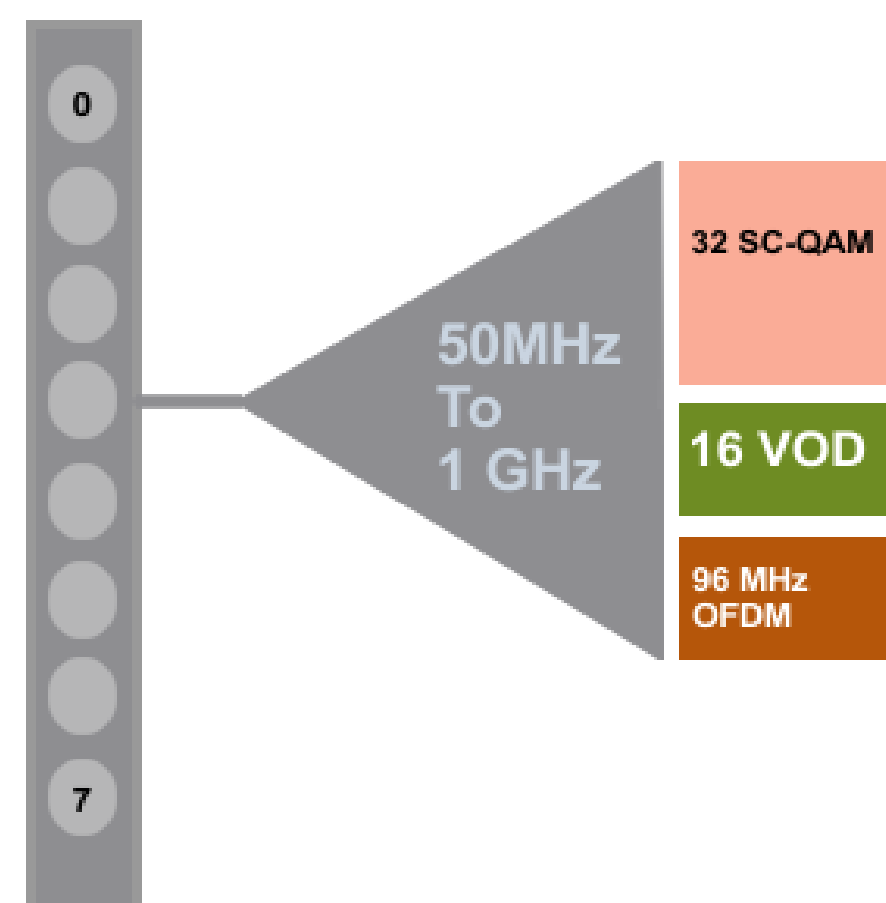
- 16 Physical Ports(MCX connectors)
- Full Spectrum Capable(108Mhz to 1218GHz)
- 48 SC-QAMs plus 192Mhz OFDM – port
- 4 x OFDM Output Block 192Mhz(Oriented S/W)
- N + 1 Sparing

○ Router System Module(RSM-2)

- 2 x 100Gigabit Ethernet ports – Front Panel
- 2 x 10Gigabit Ethernet ports / Front Panel
- 100/1000 Mbps Ethernet(RJ-45) Console
- 1 + 1 Sparing

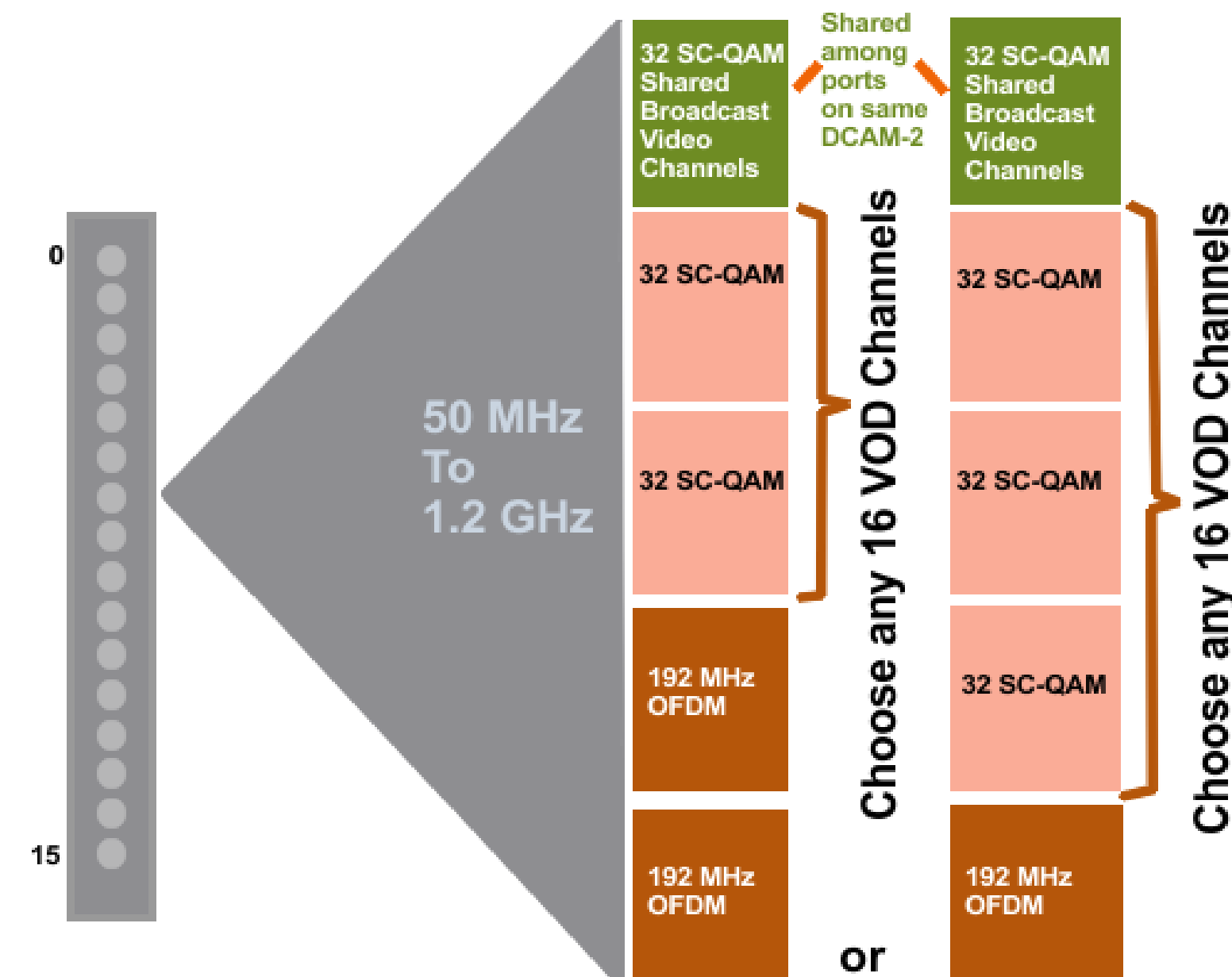


DCAM Support



8 Ports per DCAM
7 DCAMs + 1 Spare per Chassis
(for 1:1 SG ratio)
8x7 = 56 DS-SGs per Chassis (1:1)
Uses F Connectors

DCAM-2 Hardware Capabilities



16 Ports per DCAM-2
6 DCAM-2s + 1 Spare per Chassis
16 x 6 = 96 DS-SGs per Chassis
Uses MCX Connectors

C4 CMTS (C4 Cable Modem Termination System)

하드웨어 기반 고성능 데이터 처리, 음성, 멀티미디어 서비스(Triple Play Service)를 위한 세계 최고 수준의 성능을 제공하며 Full D3.0 서비스를 지원
※ More Speed, More Services, More Subscribers, Less CAPEX ※

- 전체 14 슬롯의 고성능 솔루션
- 선택적 상향·하향 비율의 유연한 서비스 제공
- 높은 수준의 안정성/신뢰성/확장성 제공
- N + 1 RF 이중화 및 1 + 1 공통부 이중화
- 브로드캐이스와 내로캐스트 서비스를 하나의 장비를 통해 초고화질 대용량 영상, 음성, 데이터를 all IP 기반으로 제공
- DOCSIS 3.0, DOCSIS 3.1 및 CCAP의 미래를 위한 혁신적인 플랫폼
- 더 많은 채널이 필요할 시 소프트웨어 업그레이드를 통해 확장할 수 있는 매우 유연한 플랫폼으로 CapEx를 극대화
- 최고의 랙 공간, 전력, 냉각 효율성, 케이블링에 대한 필요성을 줄인 'Wire once' 아키텍처를 통해 OpEx를 감소



Card

- Upstream cable Access Module(UCAM)
 - 12U Cable Access Modules(CAMs) 12 DOCSIS 상향 지원
 - 12U Cable Access Modules(CAMs) 24 DOCSIS 상향 지원
- Downstream Cable Access Module(DCAM)
 - 16D CAMs 16 DOCSIS 하향 지원(4Quad-QAM)
 - XD CAMs 32 DOCSIS 하향 신호 지원(Annex B) 24 DOCSIS 하향 지원(Annex B) 24 DOCSIS 하향 지원(Annex A)
- Router System Module(RSM)
 - 25G switching capacity
 - 1 x 10Gbps interface(XFP)
 - 10 x 1Gbps interface(SFPs, Cooper or Optical)
- System Control Module(SCM)
 - System 관리 모듈

Converged EQAM Platform

- Field proven platform supporting convergence of data and video on the same RF port.
- High capacity, high density, and low power edge chassis
- Fully redundant system design
- State of the art direct to RF technology
- Integrated Mediacypher Encryption (Broadcast, DTA)
- Proven integration with Cisco uBR10k



Front Panel



Rear Panel



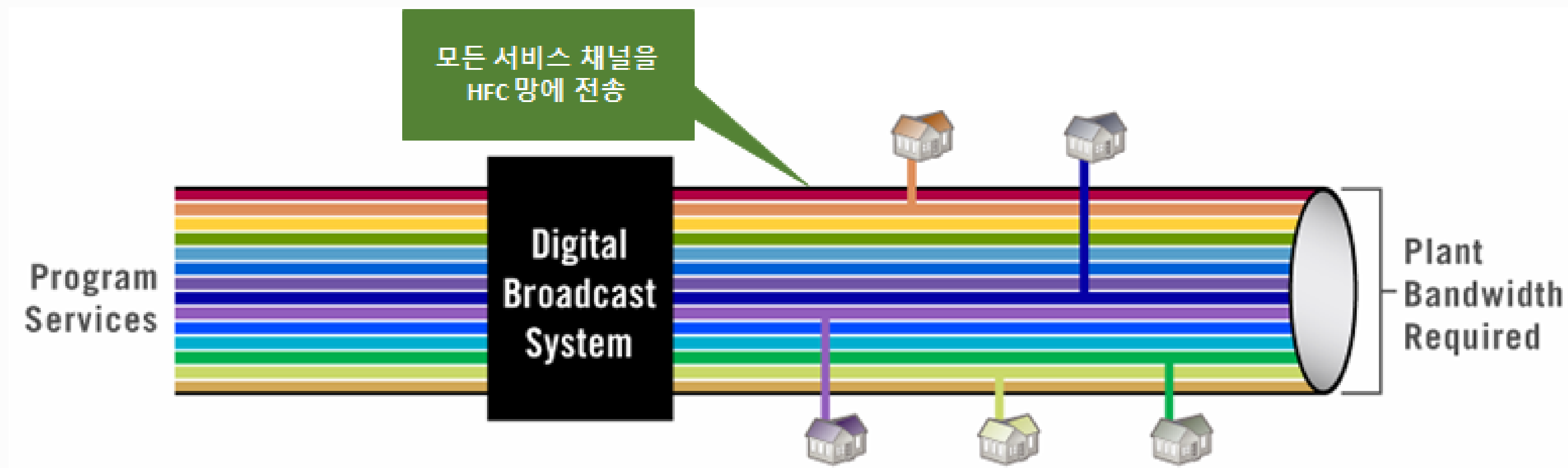
Chassis Overview

- Chassis : 4U
 - 7+1 or 8+0 QAM Blade
 - 1+0 or 1+1 Host Modules
 - DTI for M-CMTS
 - 12, 10GigE Port
 - Integrated RF switch
- QAM Capacity
 - 16 to 48 QAM/RF Port
 - Pay-as you grow 1-QAM Upgrades
 - Non Redundant : 32 RF ports
 - Redundant : 28 RF ports
- Redundancy
 - 1+1 Host Module redundancy
 - N+1 QAM Blade redundancy
 - Load sharing power supplies
 - DTI Source Redundancy

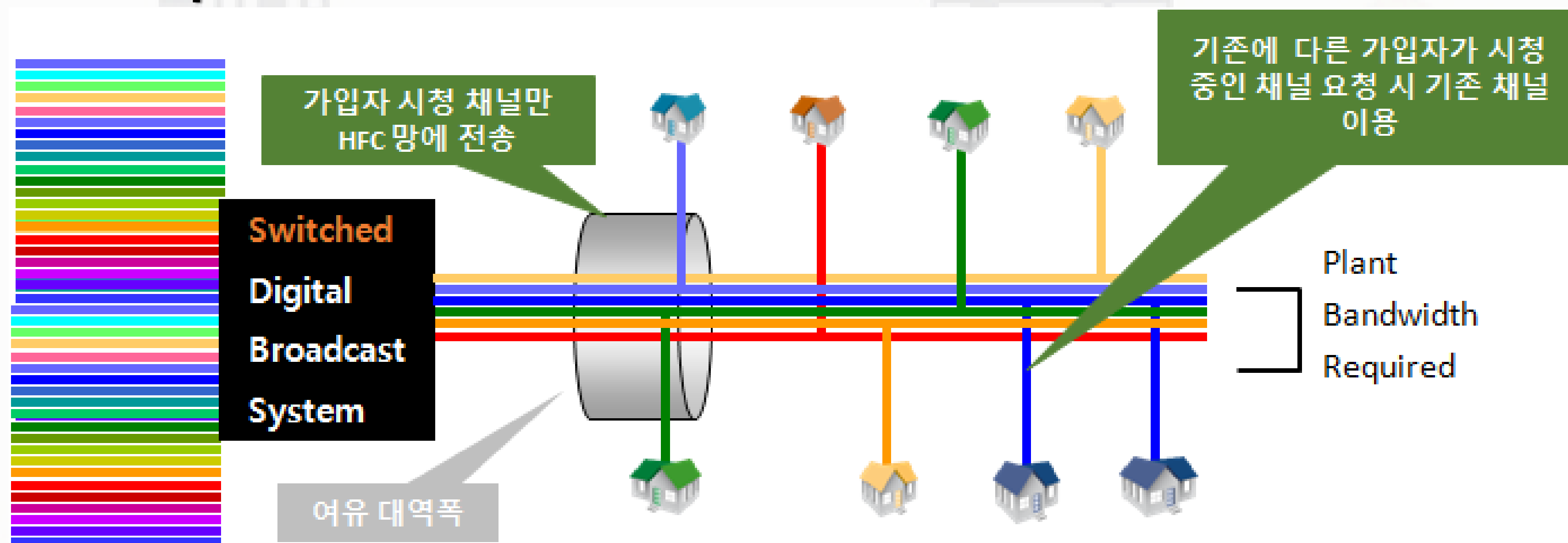
Up to 32 RF ports and up to 1536 QAM channels

SDV(Switched Digital Video)

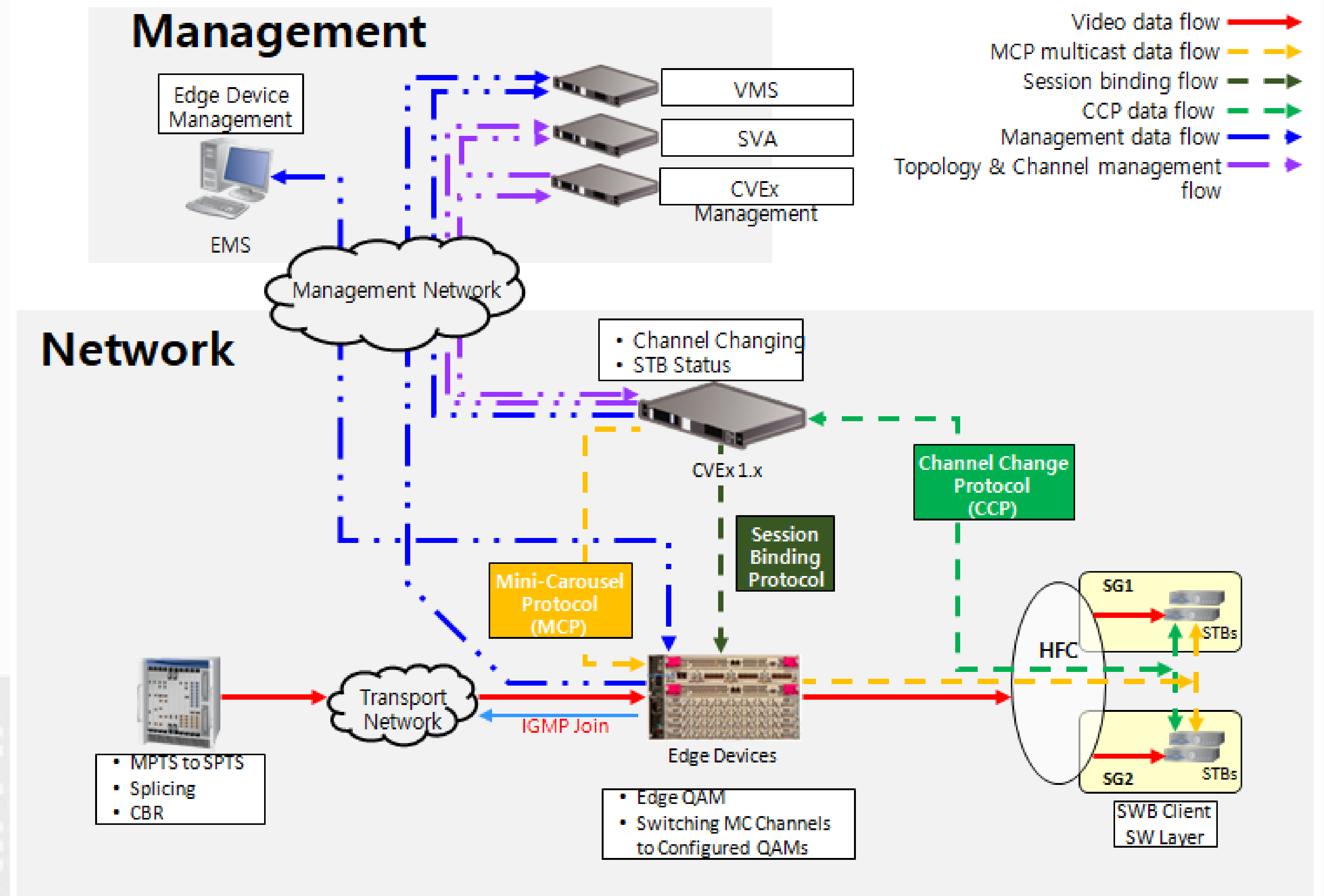
- Broadcast no longer scales with available programming



- SDV reclaims bandwidth and allows channel lineup expansion



- SDV Data & Video Flow



왜 프록스목스(Proxmox)인가?



Virtual
Environment



Backup
Server



Mail
Gateway

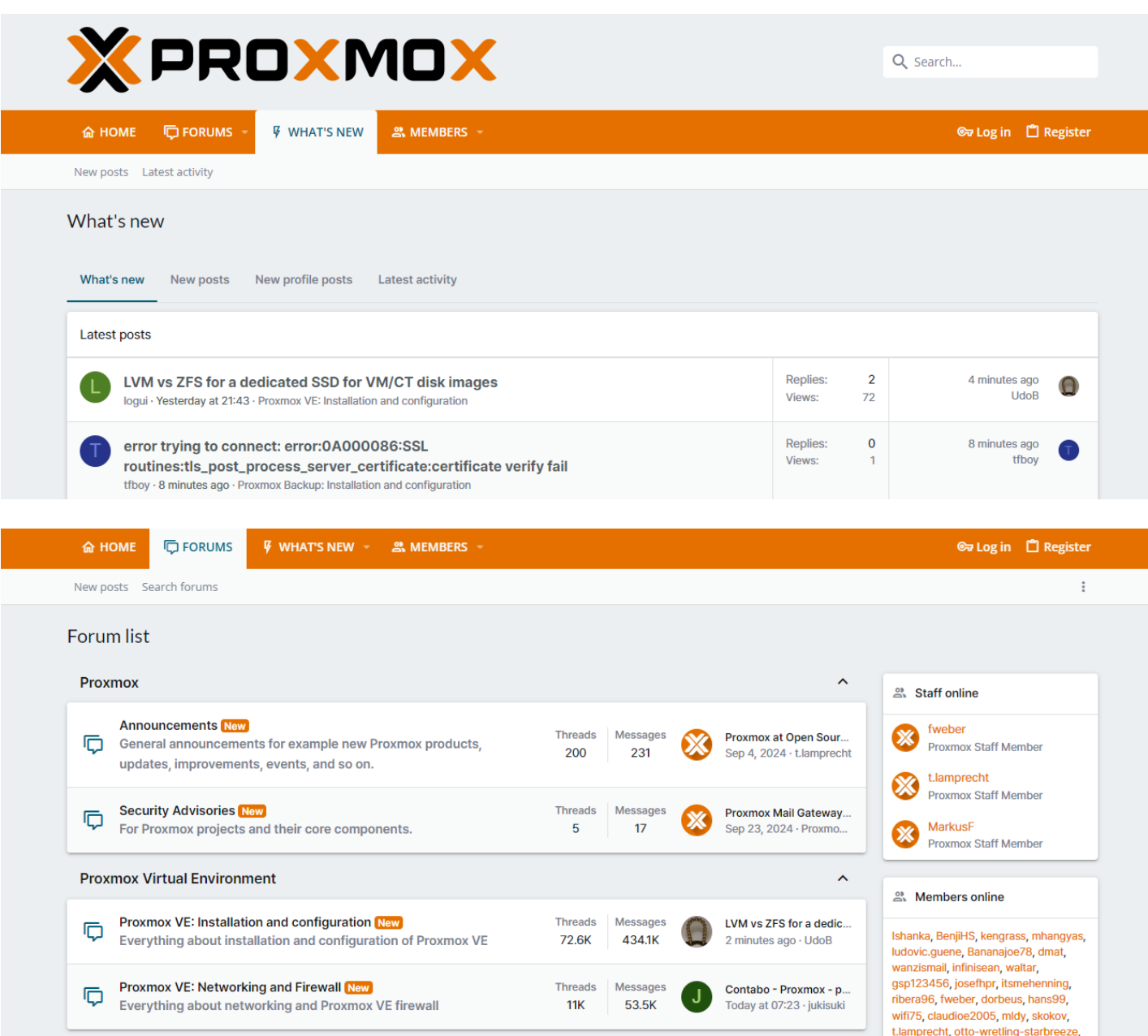
STABILITY

2008년 출시 후
연 2~4회 마이너 업데이트, 2년에 1회 메이저 업데이트 진행

Proxmox VE 버전	데비안 버전	첫 번째 릴리스	데비안 EOL	프록스목스 EOL
프록스목스 VE 9	데비안 13 (Trixie)	2025-08	추후 공지	추후 공지
프록스목스 VE 8	데비안 12 (Bookworm)	2023-06	2026-08	2026-08
프록스목스 VE 7	데비안 11 (불스아이)	2021-07	2024-07	2024-07
프록스목스 VE 6	데비안 10 (버스터)	2019-07	2022-09	2022-09
프록스목스 VE 5	데비안 9 (스트레치)	2017-07	2020-07	2020-07
프록스목스 VE 4	데비안 8 (제시)	2015-10	2018-06	2018-06
프록스목스 VE 3	데비안 7 (Wheezy)	2013-05	2016-04	2017-02
프록스목스 VE 2	데비안 6 (스퀴즈)	2012-04	2014-05	2014-05
프록스목스 VE 1	데비안 5 (레니)	2008-10	2012-03	2013-01

KNOWLEDGE

프록스목스 포럼 운영으로
사용자들 간의 활발한 교류



FLEXIBLE



KVM과 LXC를 웹 UI를 통해
손쉽게 통합 관리



단순가상화, 공유스토리지,
HCI 구성 등 유연한 인프라
구축을 제공



Veeam, DellEMC, Lenovo,
NVIDIA 등
글로벌 IT 기업의 공식적 지원

프록스목스 기반 가상화 플랫폼 버트온

프록스목스 기반 버트온은 상업용 확장 기능과 별도 라이선스 체계, 책임 있는 기술지원을 제공합니다.



상업용 솔루션을 지향

모니터링 → 관리 → 쿠버네티스, AI연동 등 기능 확장



버트온 별도 라이선스 체계

Basic / Standard / Enterprise



기술지원 책임

파트너 → 더폼 (더폼 개발팀/프록스목스 개발팀)

많은 기업이 물리시스템을 가상시스템으로 변경하는 이유는 **비용절감, 확장성, 관리편의성**의 때문입니다.



비용절감

서버, 네트워크, 전력, 이중화,
모니터링 등 직간접적으로 필요한
비용을 절감할 수 있습니다



확장성

성능 향상, 추가 용량이 필요한
경우 컴퓨팅과 스토리지 노드를
손쉽게 확장할 수 있습니다



관리편의성

별도 솔루션 구축 없이
전체 컴퓨팅 자원을 손쉽게 관리,
모니터링 할 수 있습니다

가상시스템 구축 목적에 맞는 Real 가상화솔루션 버트온

AS-IS

TO-BE



기본 가상화 뿐 아니라 클러스터와 HCI 구성까지

OVERVIEW

Base OS
Debian GNU/Linux
Full Virtualization
KVM/QEMU
OS level Virtualization
Linux Container(LXC)
Max RAM and CPU per host
128TB RAM
8192 Logical CPUs
Sockets

KEY Features

Clustering
High Availability(HA)
Storage
LVM, ZFS, Ceph, NFS, CIFS 등
Virtual networking
Open vSwitch
Firewall
Built-in
HCI 구성

VM Lifecycle

Backup/Restore
Live Restore & Live Migration
Storage Live Migration
Snapshot
Template and Clone
Replication
Export/Import
Virtual CPU Overcommit
V2V & P2V

버트온 VirtOn vs VMware 기능 비교

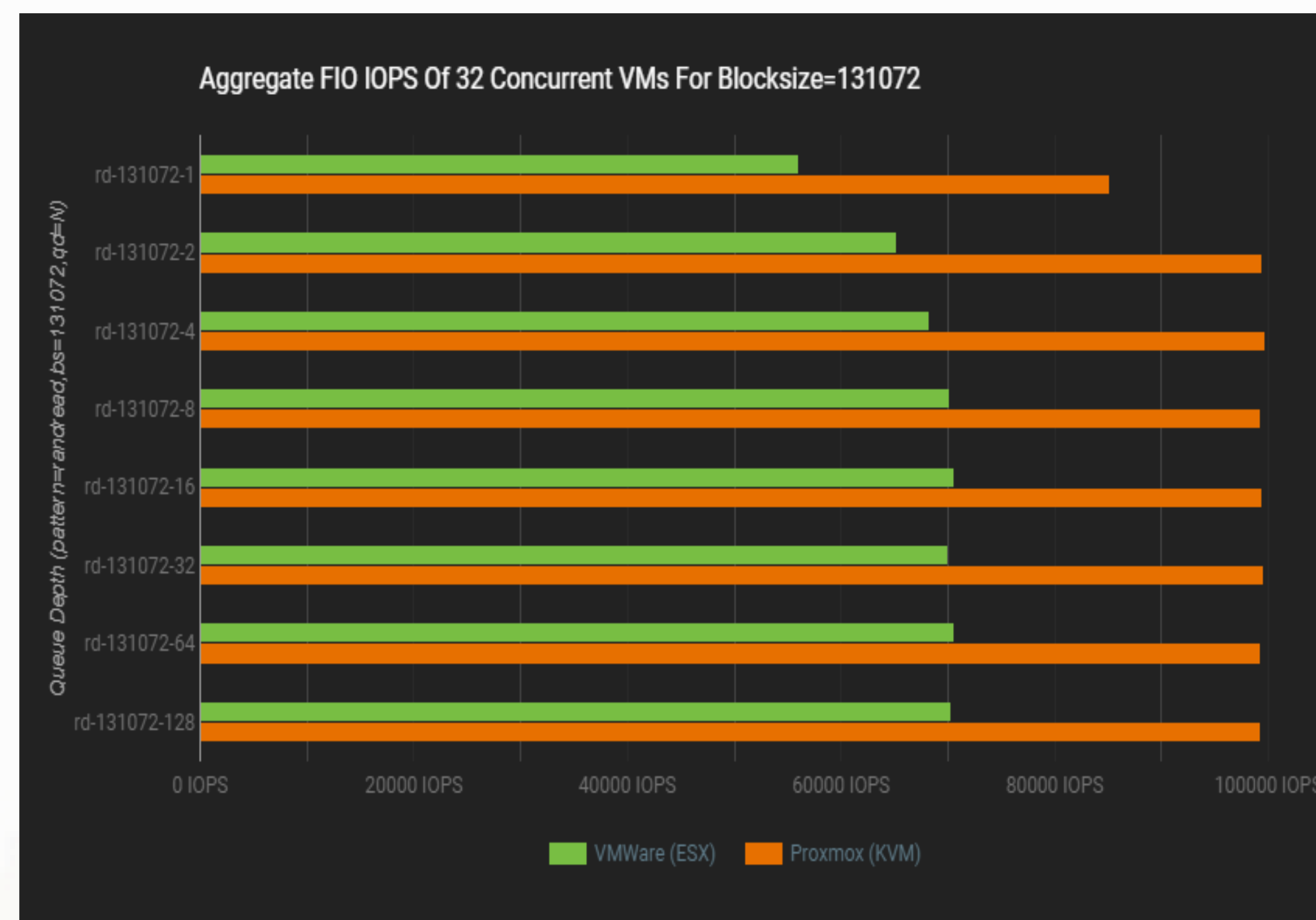
기능, 성능, 라이선스 정책 측면에서 VirtOn은 가상화 구축 목적에 부합하는 사실상 유일한 Real 가상화솔루션 입니다.

VirtOn		VMware
2028년(Proxmox)	Hypervisor 출시	2001년(ESX)
ZFS, pmxcfs	File Systems	VMFS
wmdk, qcow2, raw	Virtual disk format	vmdk
Ceph	Hyper Converged Storage	vSAN
Yes(Multi-master)	중앙관리	Yes(vCenter)
Yes	Clustering	Yes
Yes	High Availability(HA)	Yes
Yes	VM Live Migration	Yes

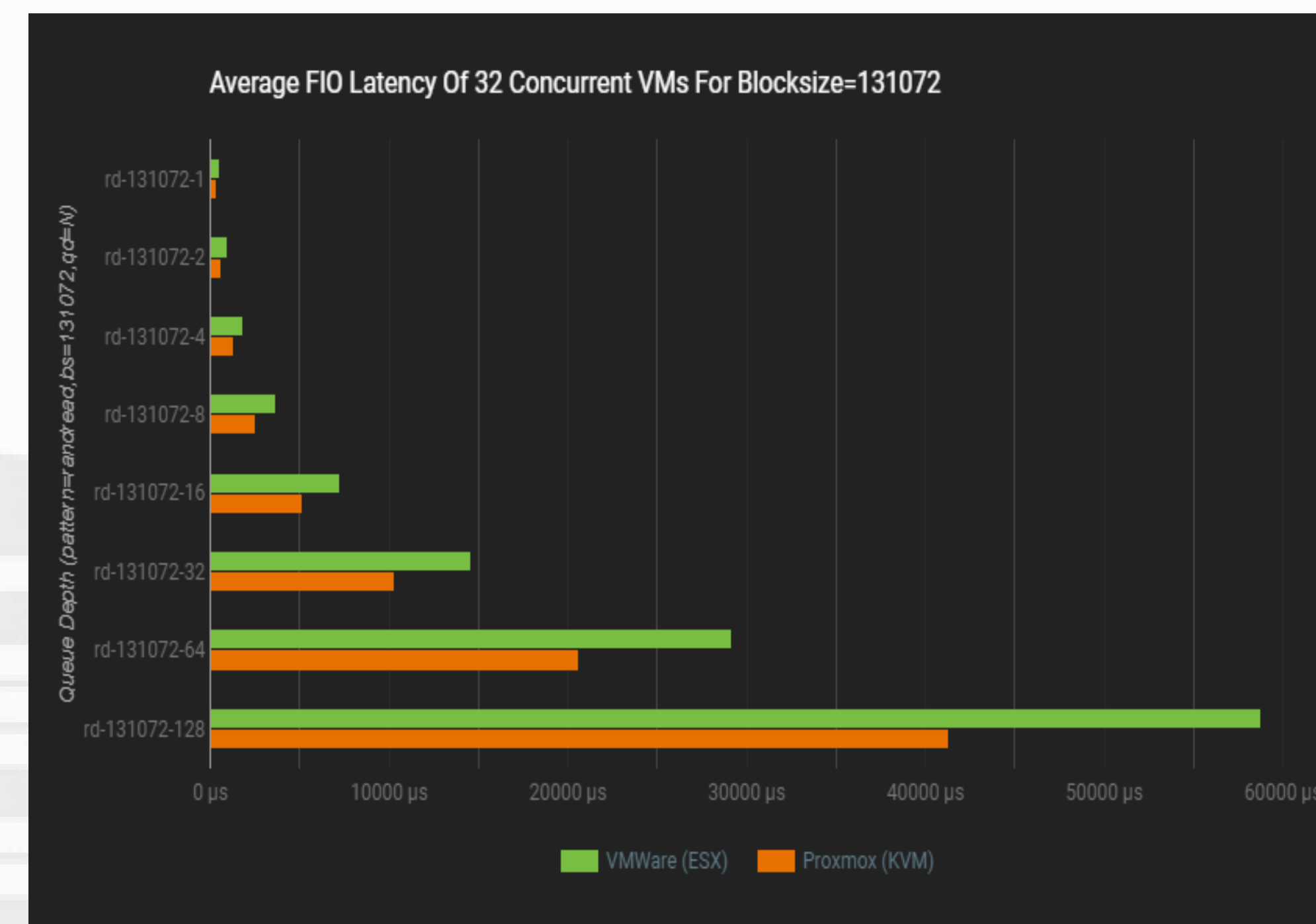
버트온 VirtOn vs VMware 기능 비교

VirtOn의 기반이 되는 Hypervisor Proxmox와 VMware 비교 테스트 결과 VirtOn의 뛰어난 성능을 확인할 수 있습니다.

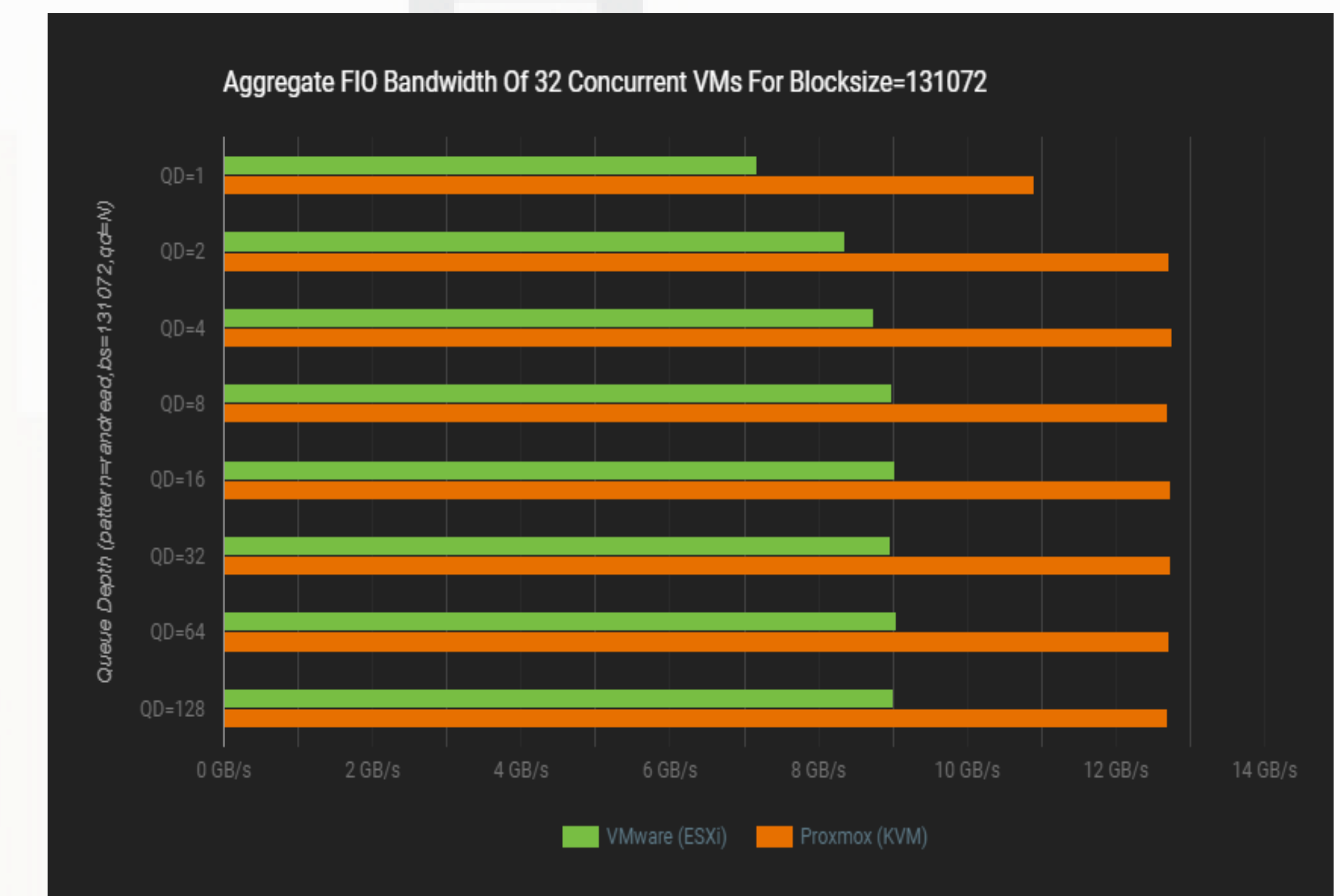
<출처 : blockbridge Benchmark Test>



더 빠른 IOPS



더 낮은 지연시간



더 많은 대역폭

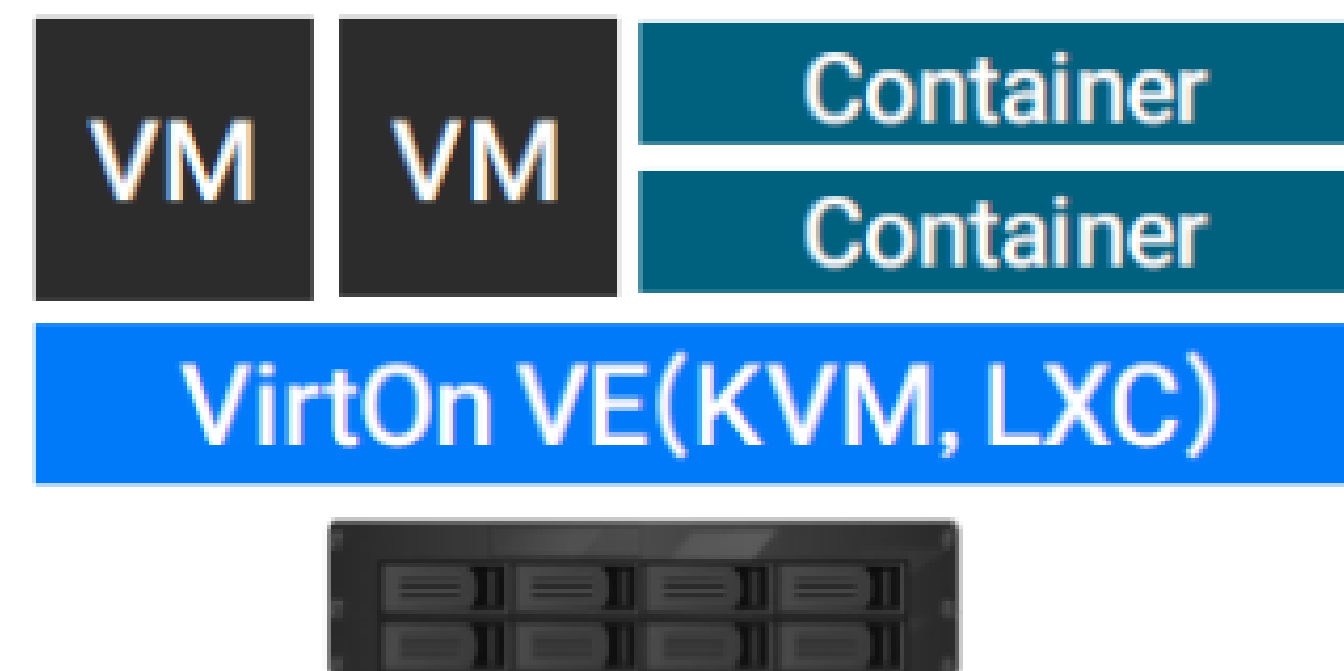
버트온 **VirtOn** 가상화 구성방식 및 라이선스

VirtOn은 단순가상화 구성, 공유 스토리지 기반 HA 구성, Ceph를 이용한 HCI 구성 등 고객사 환경에 맞춰 **다양하게 구성**할 수 있습니다.

라이선스는 CPU socket 단위로 구매(Perpetual) 또는 구독(Subscription) 방식을 선택할 수 있습니다.

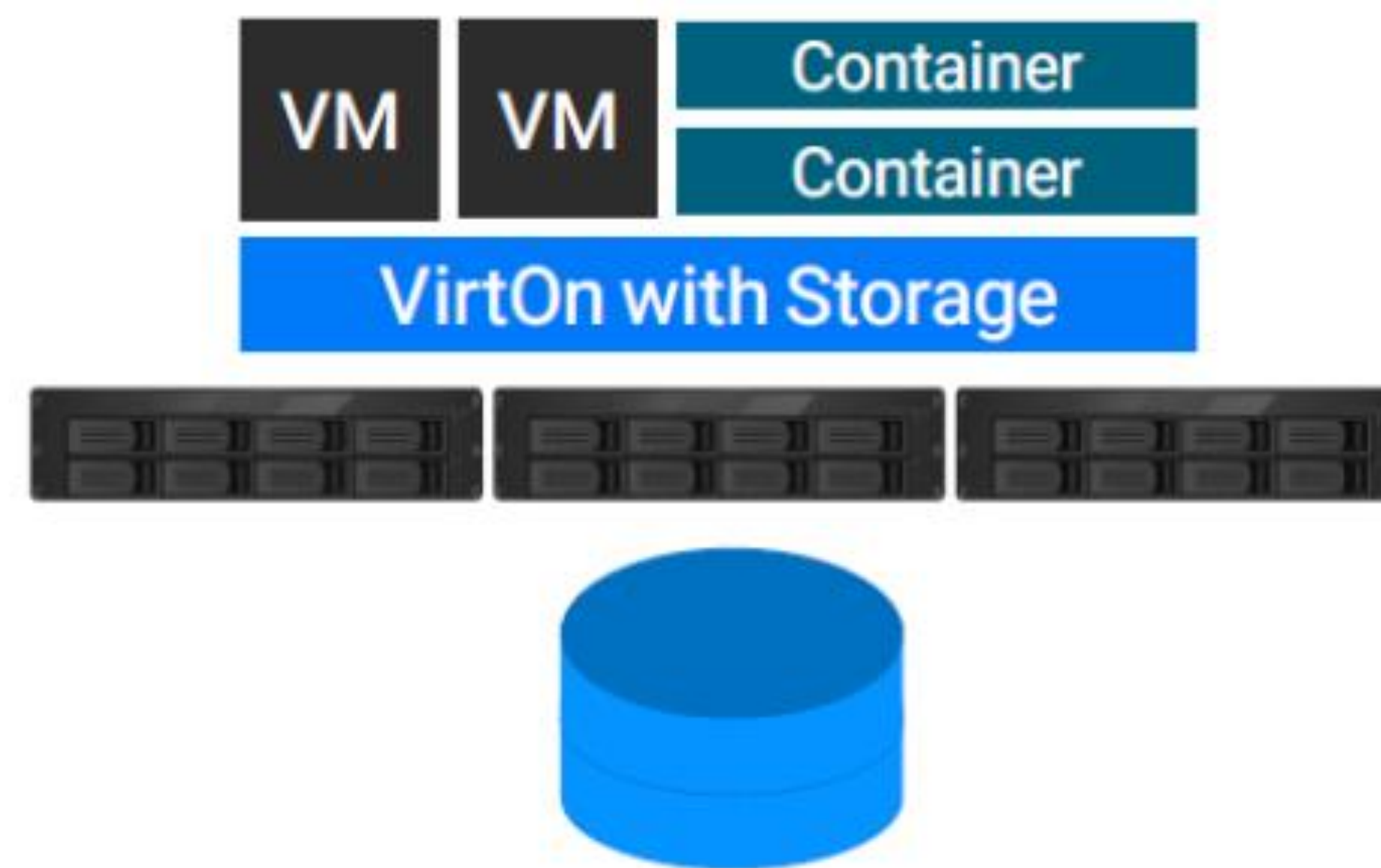
VirtOn **Basic**

단순가상화



VirtOn **Standard**

공유스토리지 클러스터구성



VirtOn **Enterprise**

HCI 구성



Hypervisor **버트온** VirtOn

VirtOn은 하드웨어에 직접 설치되는 Bare Metal Hypervisor(Type 1)이며 OS에 설치하는 Type 2 Hypervisor 대비 효율적인 리소스 관리와 성능, 안정성을 보장하며 컨테이너를 통해 다양한 어플리케이션을 충돌 없이 손쉽게 사용할 수 있는 환경을 지원합니다.

Kernel based Virtual Machine

- Intel VT-x 또는 AMD-V 등 가상화를 지원하는 모든 x86 하드웨어에서 물리 서버와 가까운 성능으로 실행
- 네트워크 카드, 디스크 등 개인 가상 하드웨어가 있는 VM에서 Windows와 Linux 모두 실행 가능
- 비용 절감과 동시에 비즈니스 요구 사항을 충족하는 확장성 높은 소프트웨어 기반의 데이터 센터를 구축할 수 있는 유연성 제공

LXC based Container

- 실행되는 호스트의 커널을 사용하므로, 컨테이너가 호스트의 리소스에 직접 액세스 가능
- Proxmox Container Toolkit(PCT)를 사용하여 LXC의 사용 및 관리를 단순화

KAYTUS는 데이터 센터 인프라, 클라우드 컴퓨팅 및 AI 솔루션의 선도적인 제공업체입니다. 싱가포르에 본사를 두고 있으며 핵심 R&D는 미국 실리콘 밸리와 대만에 있습니다.



본사

❖ 설립연도	2023년 사명 변경
❖ 대표	ZHANG QIANG
❖ 소재지	싱가포르
❖ 사업분야	서버, Edge장비, 스토리지, 네트워크, 솔루션, 등
• 글로벌 지점 • 120 개국 시장에서 판매 • 직원 약 33,000 명 • 2023 글로벌 2위 및 한국 x86 서버지상 3위	

한국지사

❖ 법인명	케이투스코리아 유한회사
❖ 소재지	서울특별시 영등포구 국제금융로 20, 7층 (여의도동, 율촌빌딩)
❖ 설립연도	2023. 12.28
❖ 임직원수	30명

Top 2
Global x86
시장 점유율

9
Branch
Office

6
생산기지

2
R&D 센터

KAYTUS는 빠른 생산과 제품 공급을 위해 각 거점 별 생산공장 및 개발센터를 운영하고 있습니다.



US Milpitas 스마트 팩토리
연간생산능력 : 200,000 Servers



Hungary 팩토리
연간생산능력 : 50,000 Servers



China 팩토리
부품조립 및 생산



US Newark 팩토리
연간생산능력 : 100,000 Servers



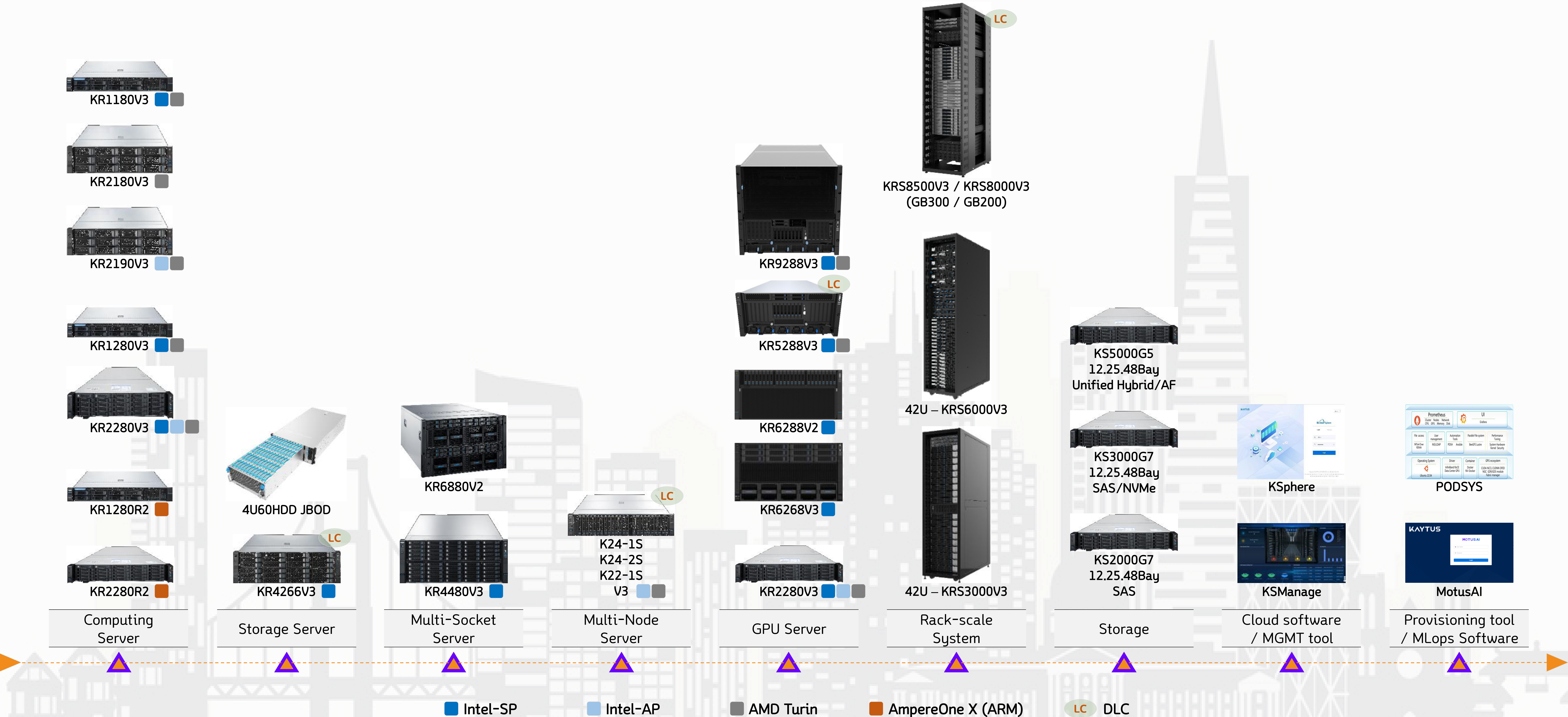
Vietnam 스마트 팩토리
연간생산능력 : 120,000 Servers
240,000 PCBA



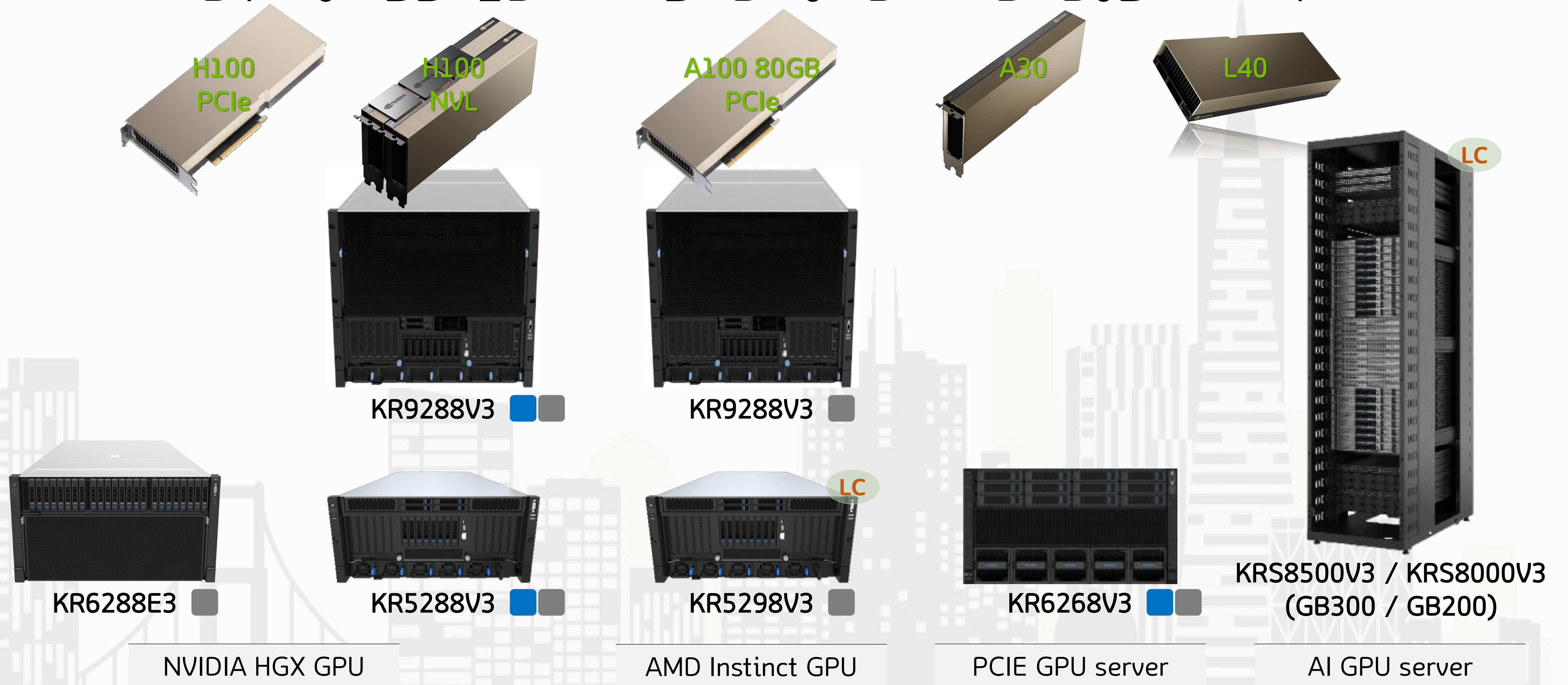
Taiwan 팩토리
연간생산능력 : 50,000 Servers
50,000 PCBA

베트남 PCBA/서버 공장 본격가동, 미국 및 싱가포르 비즈니스 센터 운영에 대한 투자 증가:

- 제조공장 : 미국, 베트남, 대만, 헝가리 공장 등에서 생산중.
- R&D : 고객의JDM 요구사항을 충족하기 위해 대만 및 미국 캘리포니아 리소스의 추가 투자
- Sales : 성장하고 있는 미국, 유럽, 일본, 한국 및 동남아시아에 대한 커버리지 확대
- Service : 인도에 글로벌 서비스 콜센터 운영. 4가지 언어에 대한 24X7 콜 서비스센터 운영
(지원언어: 한국어/중국어/영어/독일어)

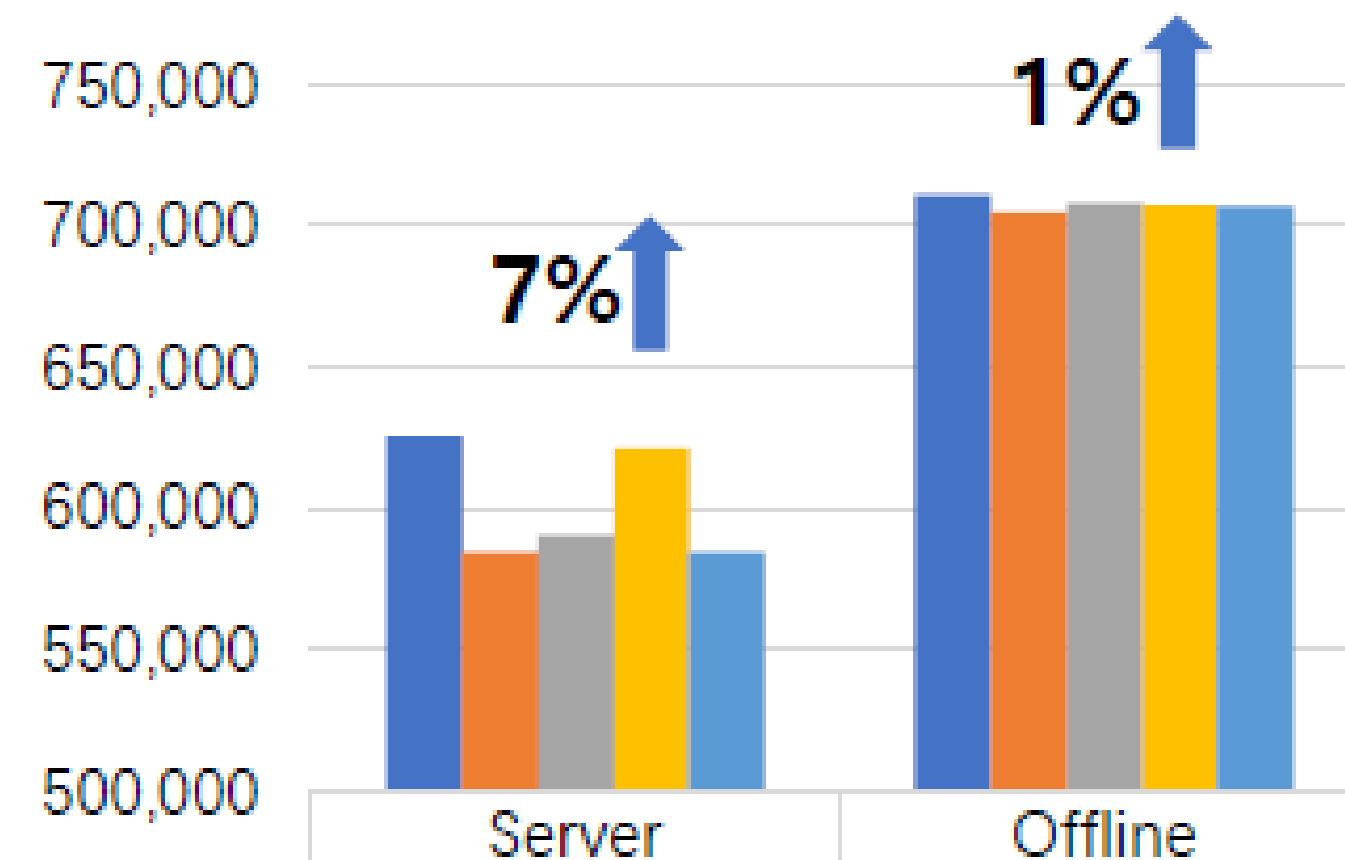


AI 인프라 영역에서부터 수랭, 모듈형 데이터 센터 구현에 이르는 ‘통합형 솔루션’ 제공
전력소비량과 발열이 높은 GPU서버를 위한 수랭 기반 데이터센터 환경을 빠르게 구축

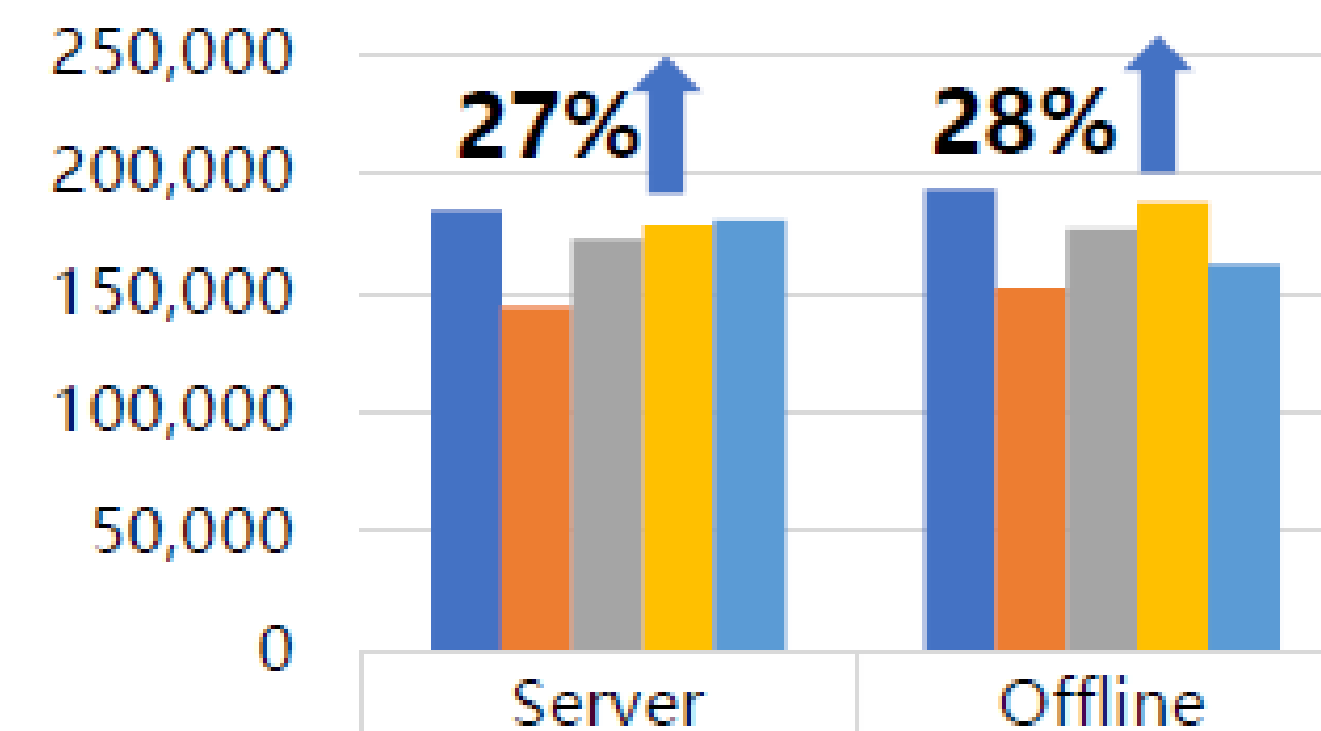


AI 인프라 영역에서부터 수랭, 모듈형 데이터 센터 구현에 이르는 ‘통합형 솔루션’ 제공
전력소비량과 발열이 높은 GPU서버를 위한 수랭 기반 데이터센터 환경을 빠르게 구축

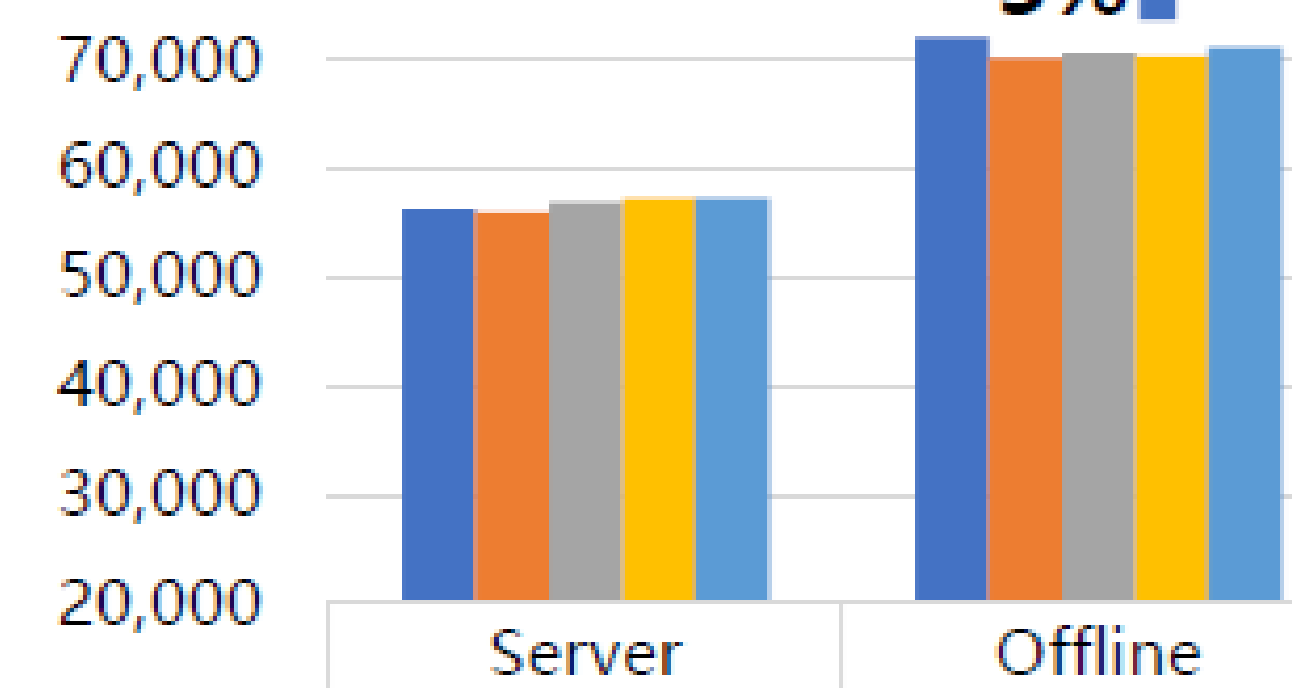
ResNet50(이미지 분류)



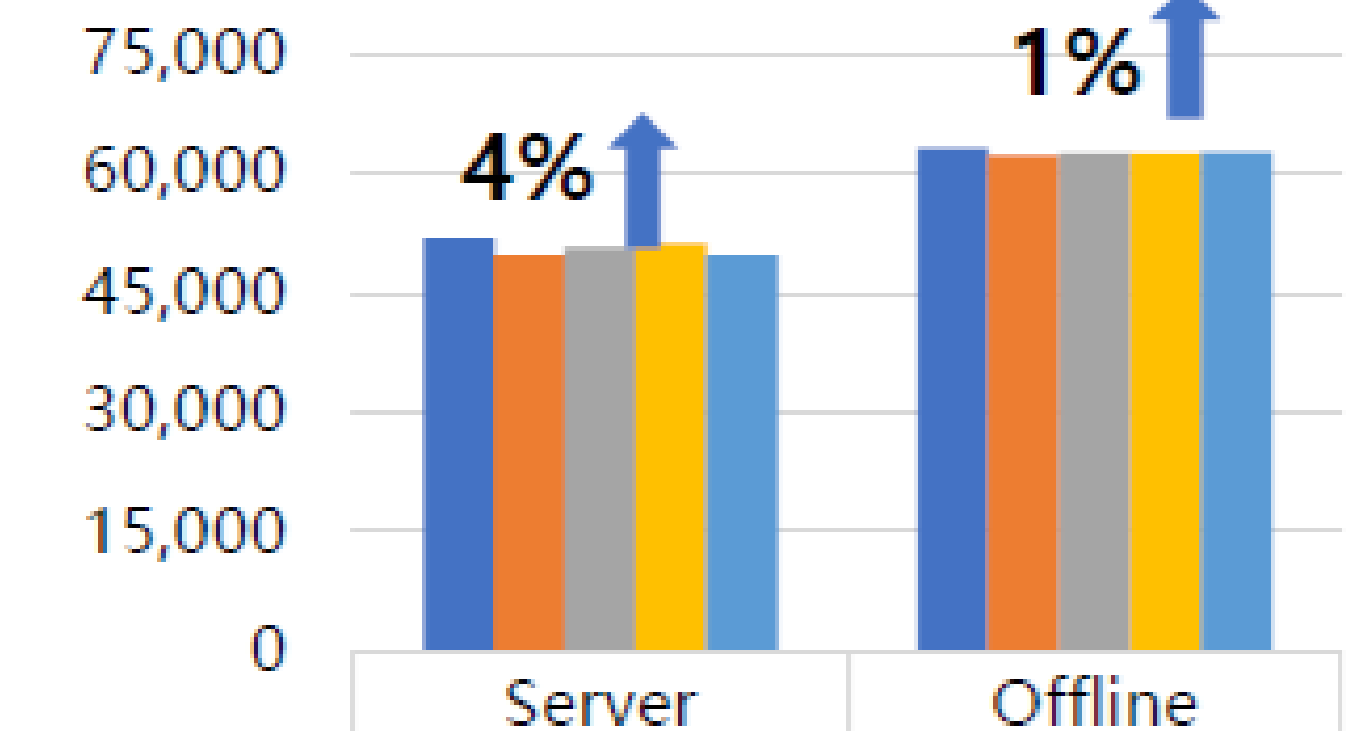
RNN-T(음성인식)



BERT(자연어처리)



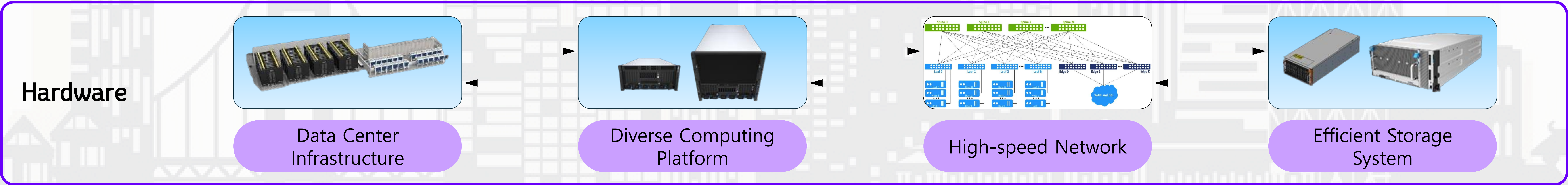
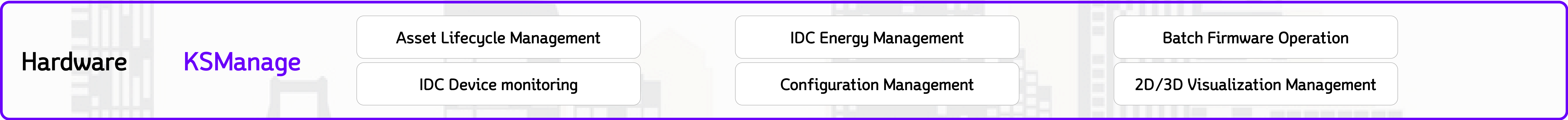
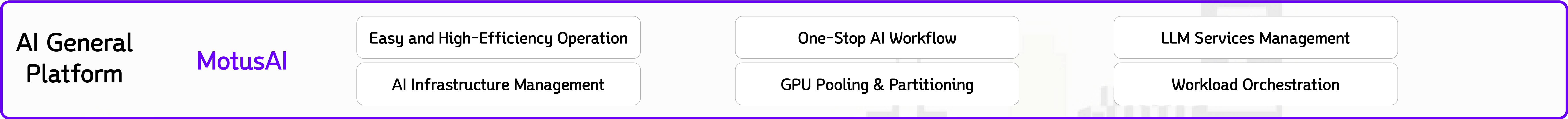
BERT-HIGH(언어모델)



Data Source: MLPerf v3.1 inference test results, <https://mlcommons.org/en/>

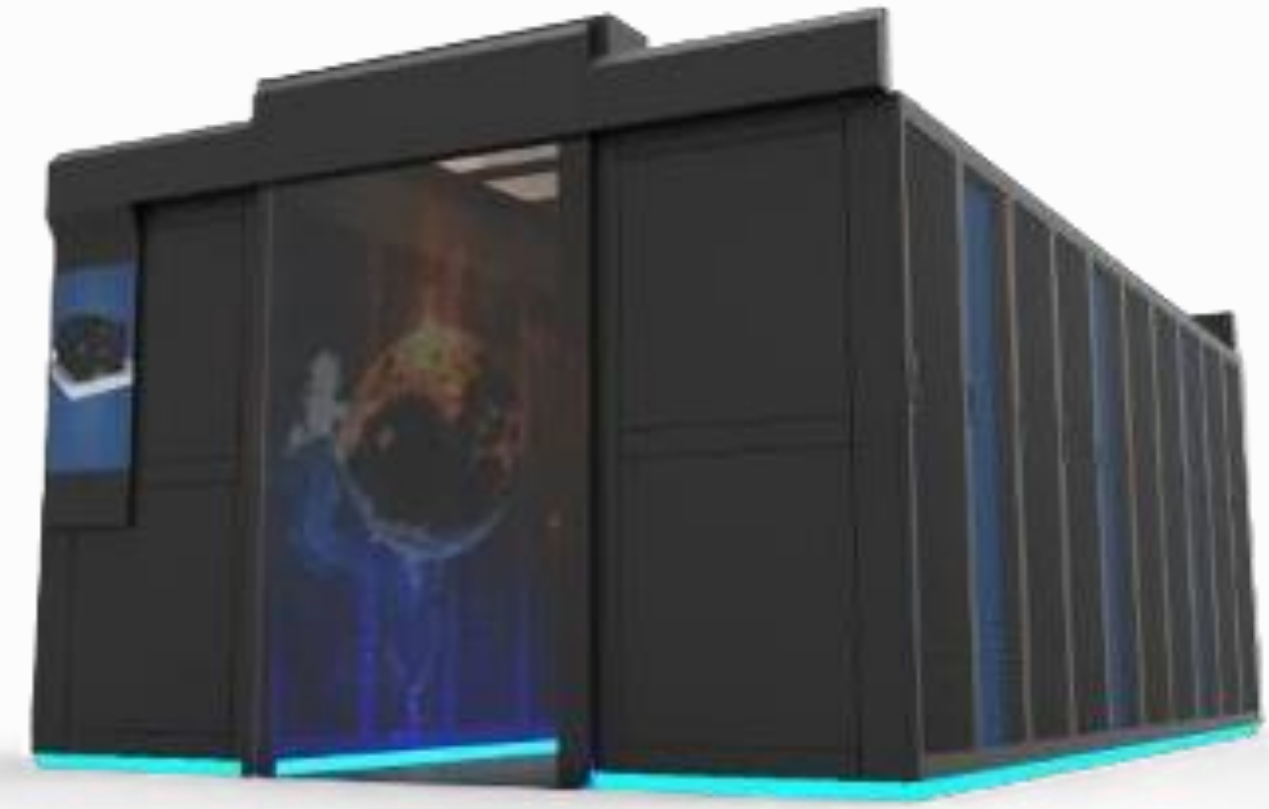
Test Spec : 동일한 Nvidia H100 SXM 80GB 사용

- KAYTUS KR6288V2: Dual AMD Genoa 9554@3.1GHz with 8x NVIDIA H100 SXM 80GB
- NVIDIA : Dual Intel SPR 8480C@2GHz with 8x NVIDIA H100 SXM 80GB
- SMC : Dual AMD Genoa 9554@3.1Ghz with 8x NVIDIA H100 SXM 80GB
- Dell : Dual Intel SPR 8470 @2GHz with 8x NVIDIA H100 SXM 80GB
- Gigacomputing : Dual Intel SPR 8480+@2GHz with 8x NVIDIA H100 SXM 80GB



모듈형 수냉식 데이터센터

컨테이너 수냉식 데이터센터



Liquid-cooled Server + MDC

Liquid-cooled server + CDC

1.1 < PUE 액체 냉각 데이터센터 솔루션



Air-liquid CDU

Full Liquid components

Air-to-liquid Reconstruction

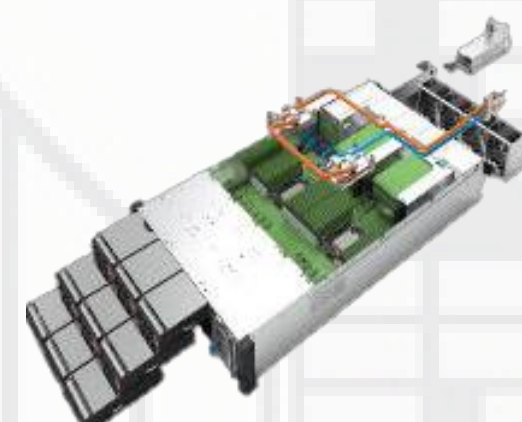
KAYTUS 데이터센터 솔루션

Liquid-cooled Server

High-density

AI DLC server

General purpose

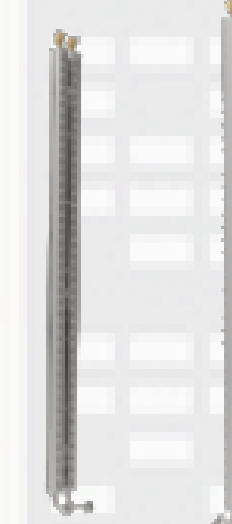
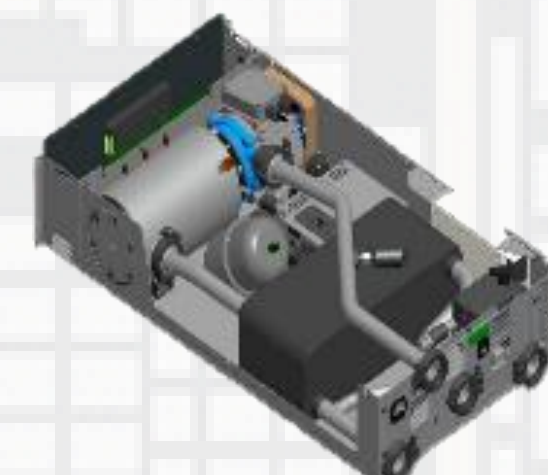


Basic Infrastructure

CDU

Manifold

Primary side



Auxiliary System

Distribution

Rack

Monitor



Release 4

모바일을 통해 네트워크 장비의 구축 및 장애복구를 위한 자동 설정 및 초기화, OS Upgrade 기능 제공
모바일을 사용하여 기존 노트북을 이용하여 설정하는 것보다 편의성을 증대하고 보안을 강화하여 안정성 증가



지원 장비 현황

지원하는 장비 모델 및 수량을 확인할 수 있습니다.

Vender	지원 모델 수량	장비 Type	지원 장비 수량
유비쿼스	30종	Backhole	3종
		L2	14종
		L3	13종
다산네트웍스	25종	L2	23종
		L3	12종
인티게이트	3종	QOS	3종
코위버	2종	Utrans	2종

지원 모델 수량
각 제조사가 지원하는 모델의 총 수량입니다.

Vender
장비 제조사를 확인할 수 있습니다.

장비 Type
제조사별로 지원하는 장비 유형을 확인할 수 있습니다.

지원 장비 수량
각 장비 유형별로 지원하는 장비의 수량입니다.

Vender
장비 제조사를 확인할 수 있습니다.

지원 모델 수량
각 제조사가 지원하는 모델의 총 수량입니다.

장비 Type
제조사별로 지원하는 장비 유형을 확인할 수 있습니다.

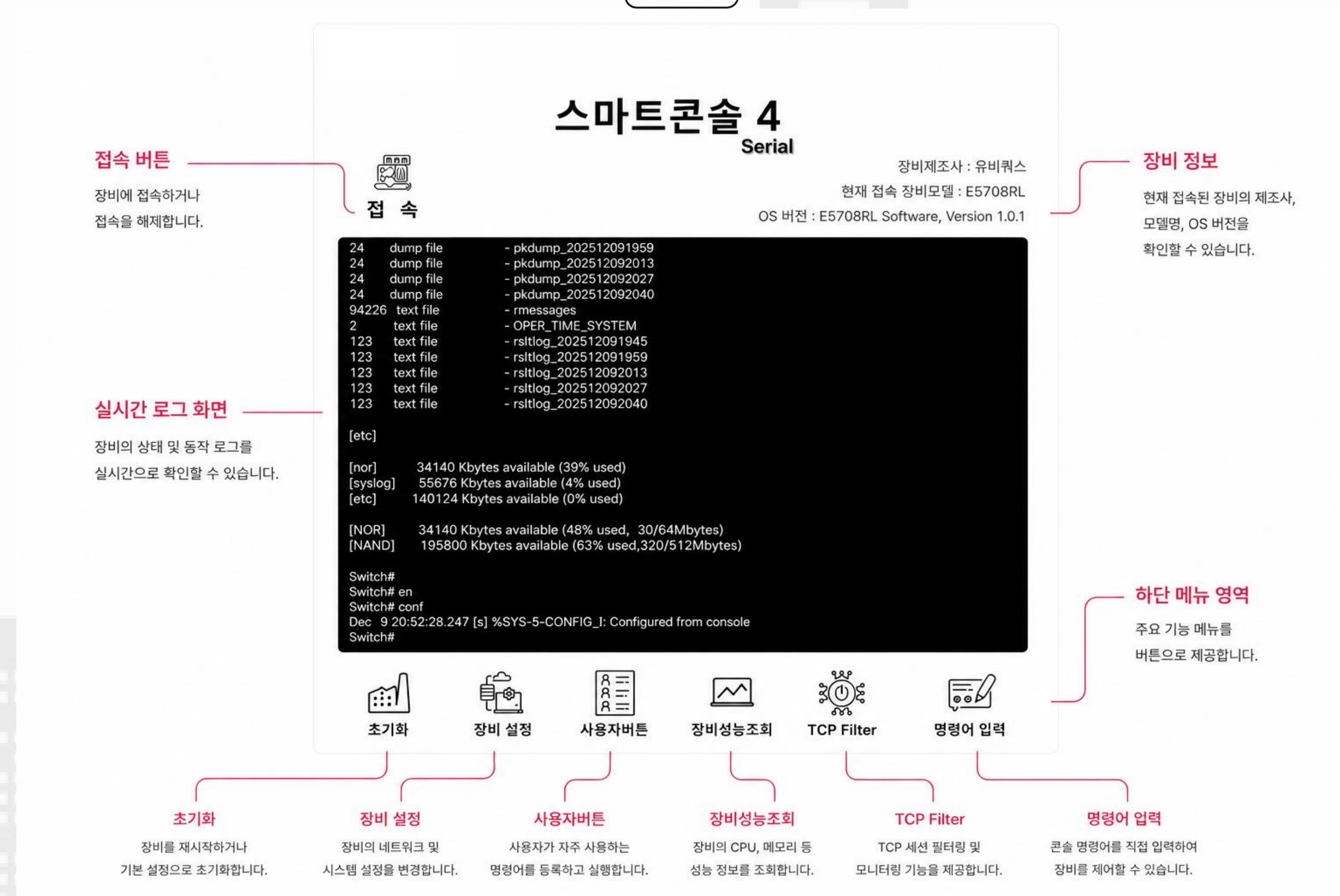
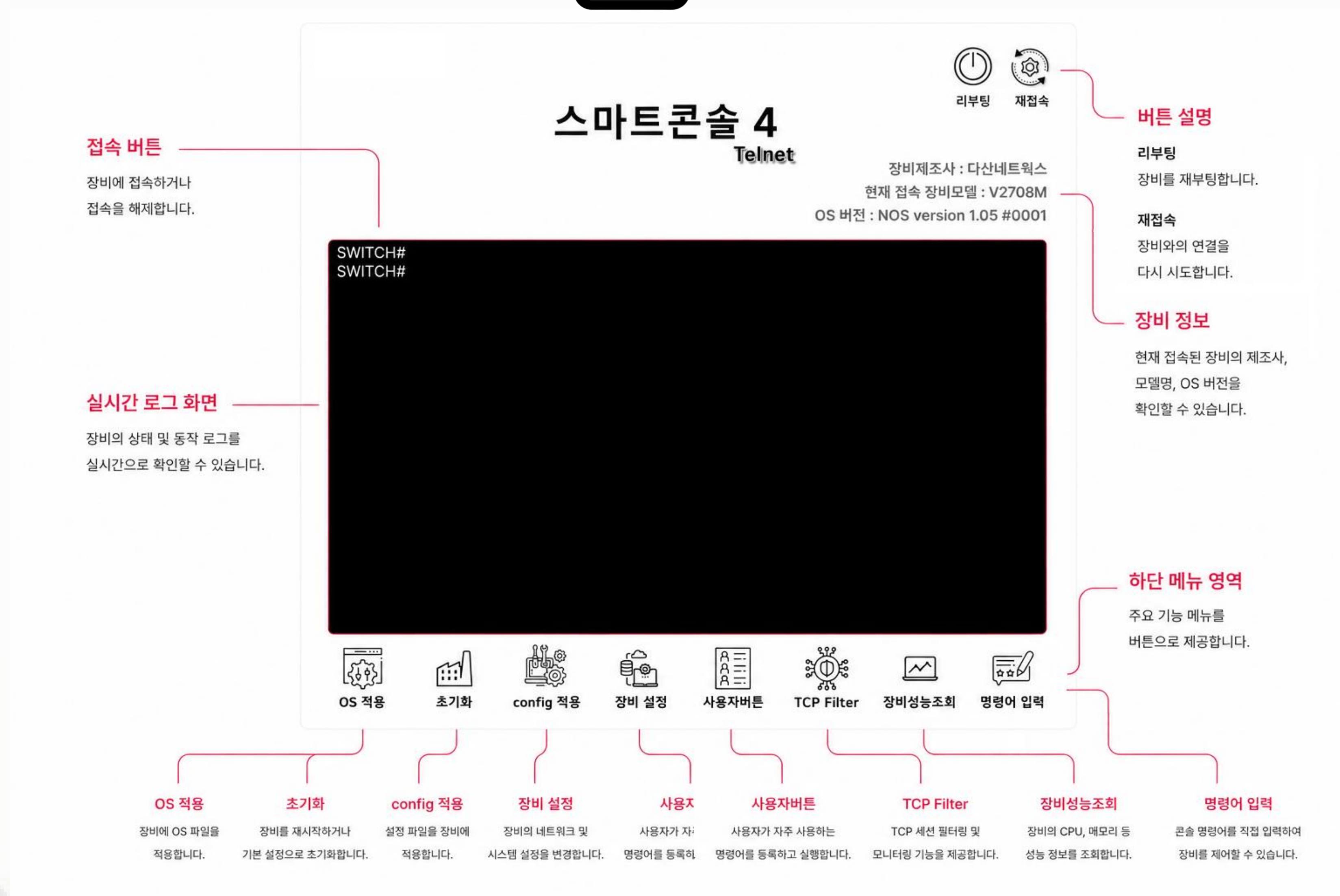
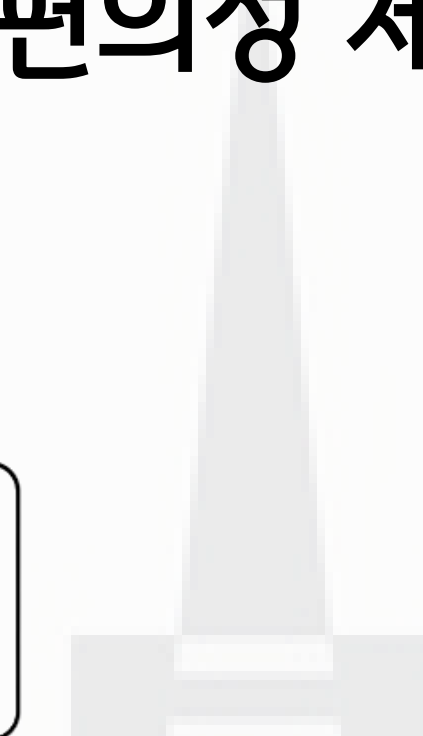
지원 장비 수량
각 장비 유형별로 지원하는 장비의 수량입니다.

※ 신규장비 및 마이그레이션 지원

Release 4

현장 환경에 맞게 Telnet · Serial 접속으로 장애복구 Config 자동화를 통한 신속성과 편의성 제공

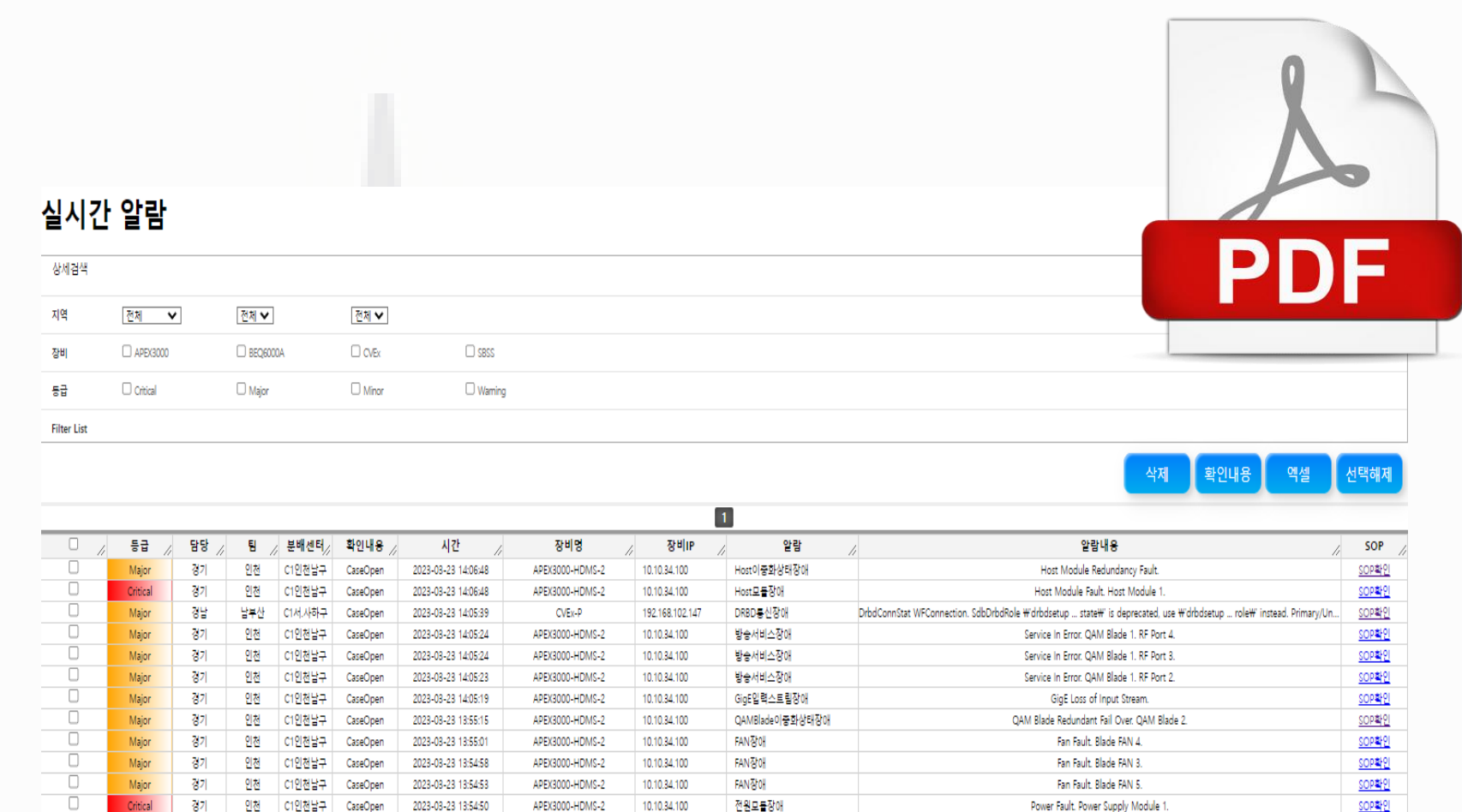
등록 장비의 차별화된 명령어로 장비별 명령어가 달라도 적용이 가능



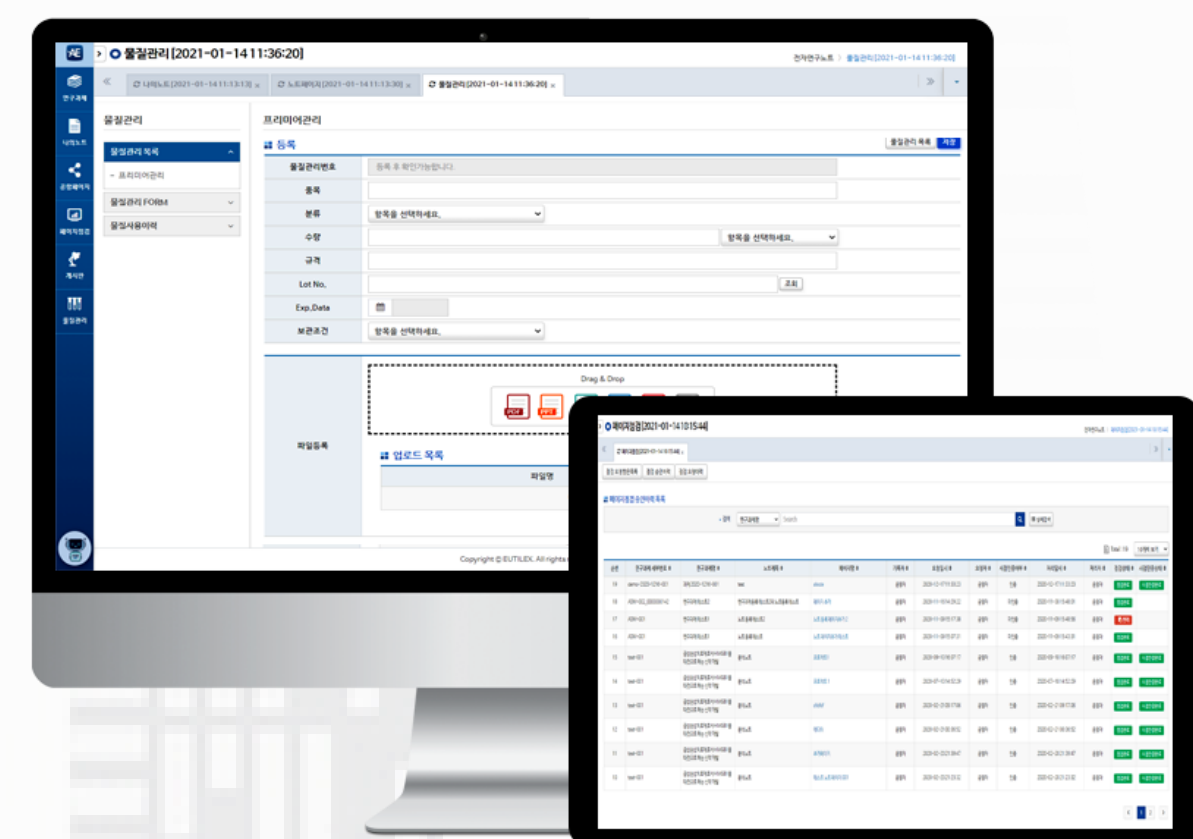
Smart Device Management System

살아 있는 기업 및 조직의 인프라를 안정적으로 운영하기 위한
인프라 통합 가시성, 가공성 보장, 운영 효율화를 제공

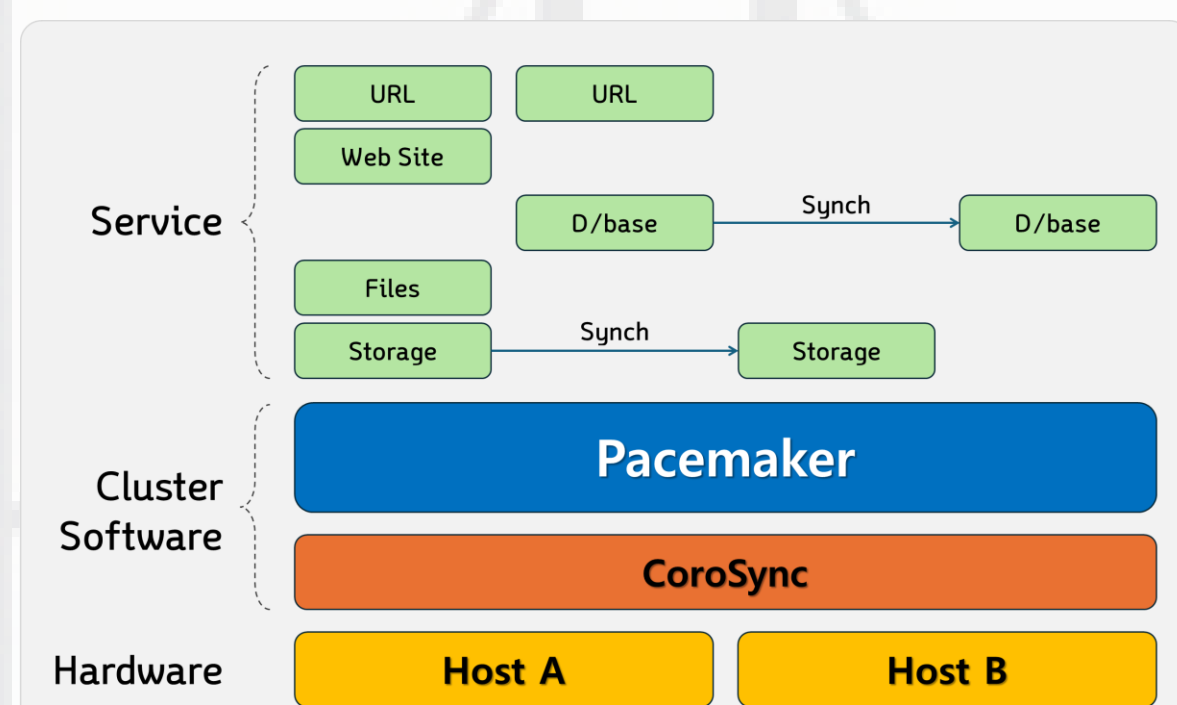
SDMS



① 스마트 통합 보드



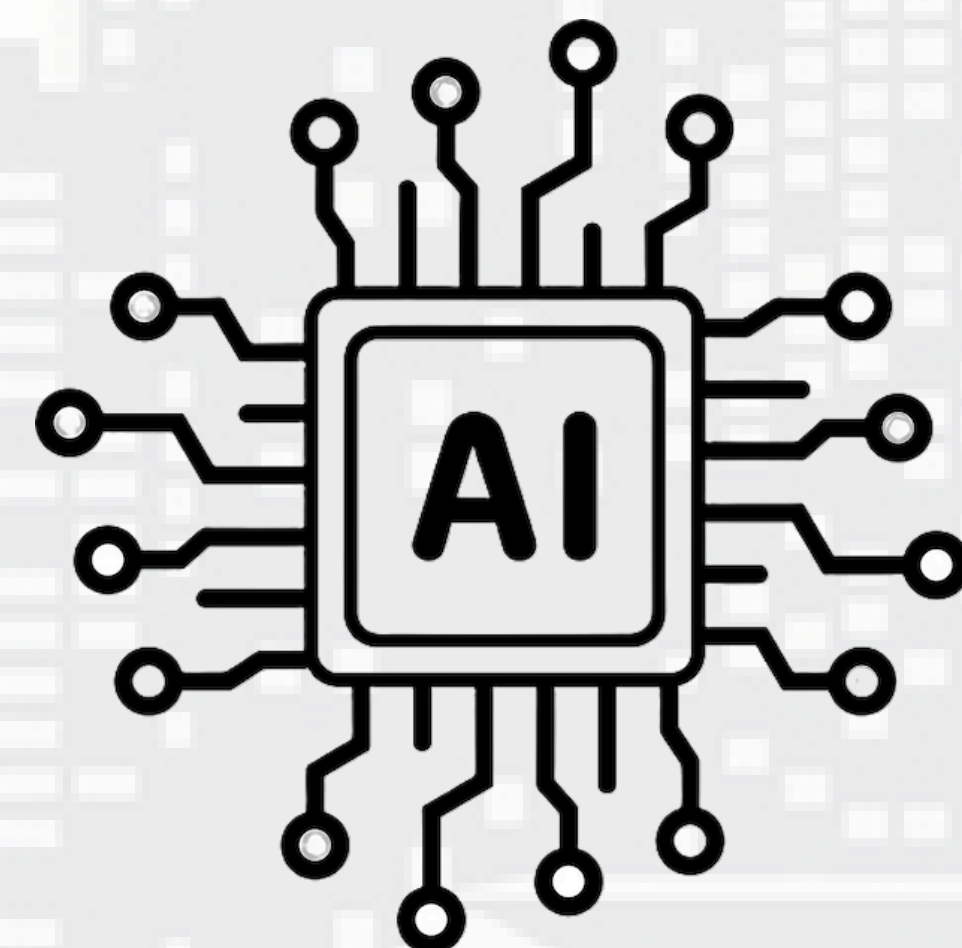
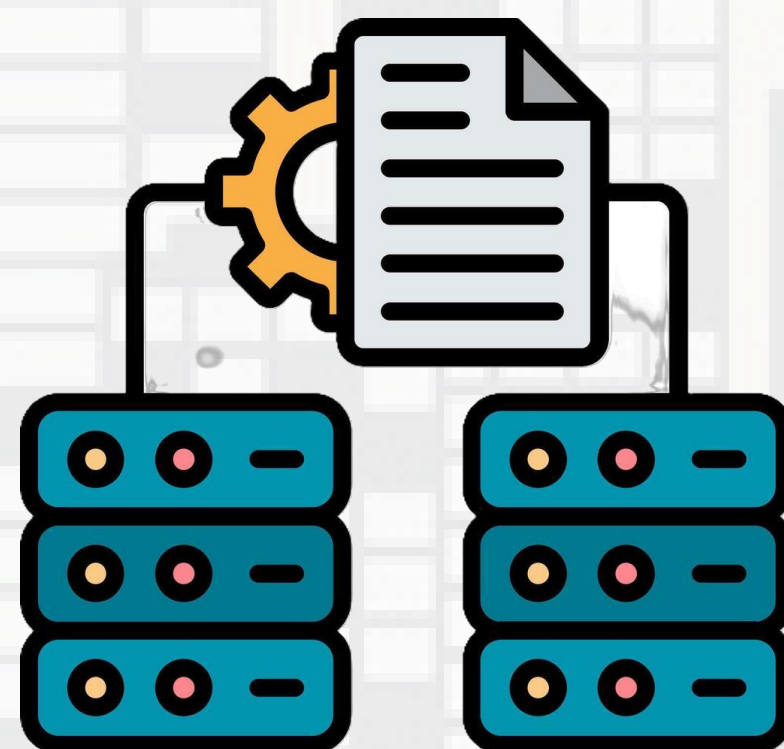
② 장비 / 사용자 관리



③ Application Stack

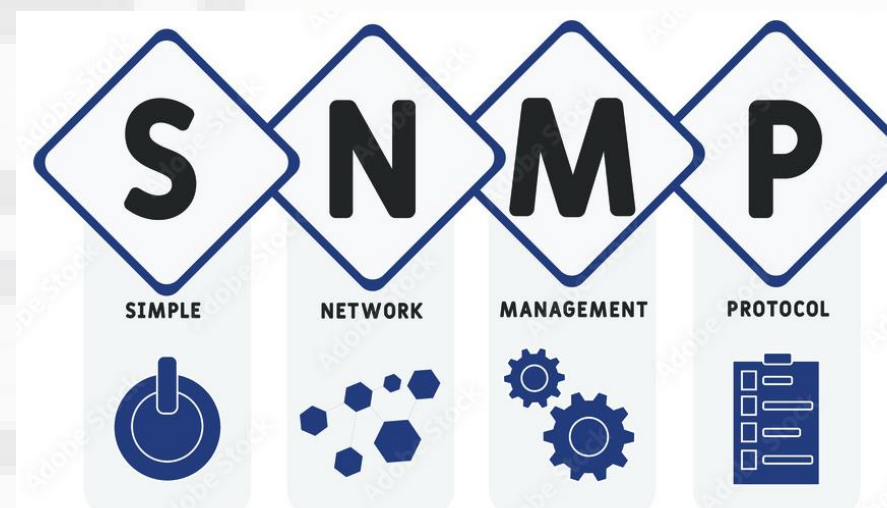


⑥ High Availability



⑦ AI Support Agent

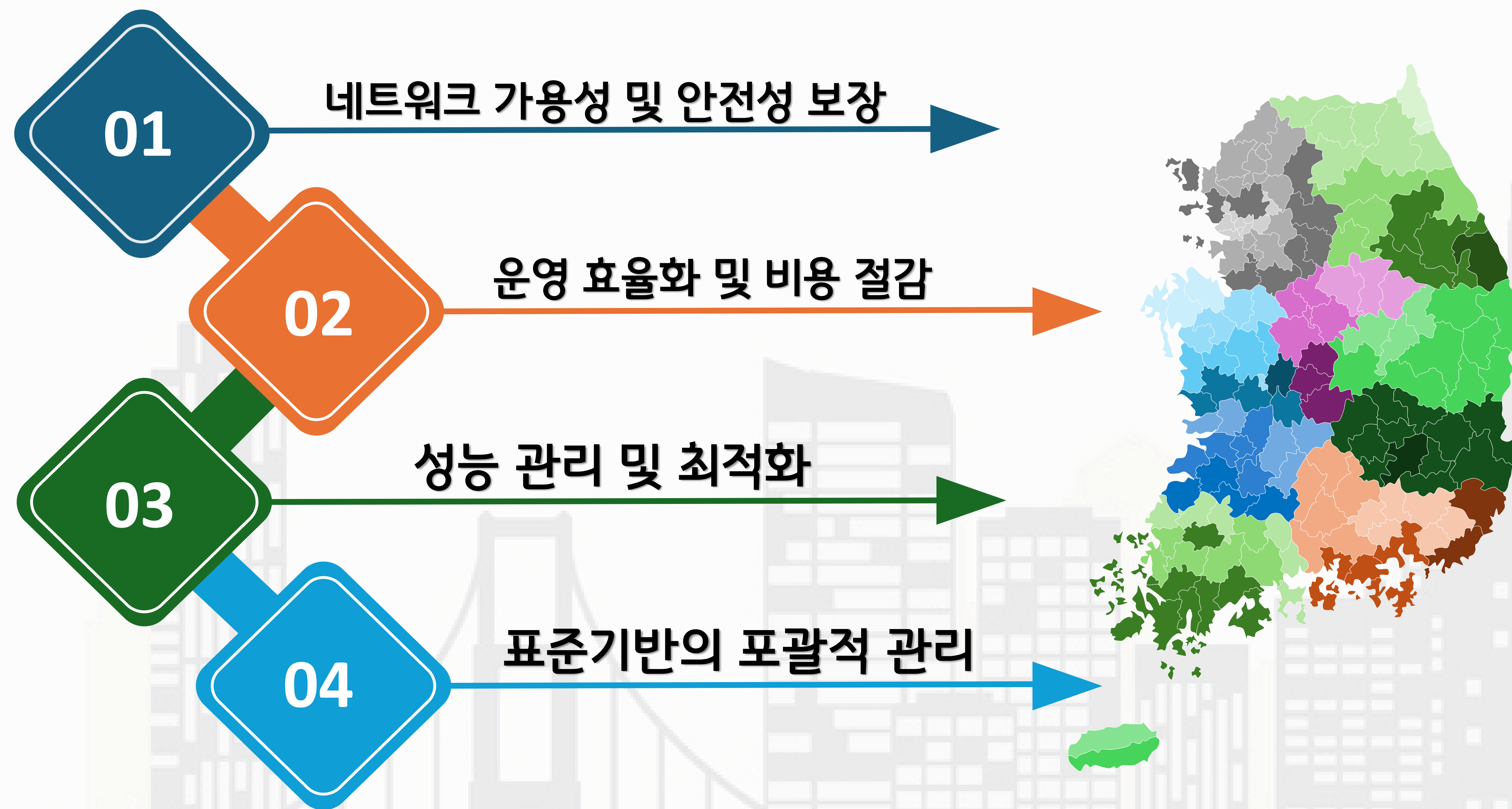
⑤ 이벤트 관리 | 장애복구 SOP



④ Agent
- DeviceCheck
- Event Parser

Smart Device Management System

장애의 선제적 대응, 중앙집중식 관리, 인력 및 비용 절감 가볍고 스마트한 NMS



- ❖ 기획 → 개발 → 검증 → 적용 → 운영 노하우
- ❖ 전국단위 적용
- ❖ 지속적 요구사항 개발
- ❖ 사용자 친화적 UI

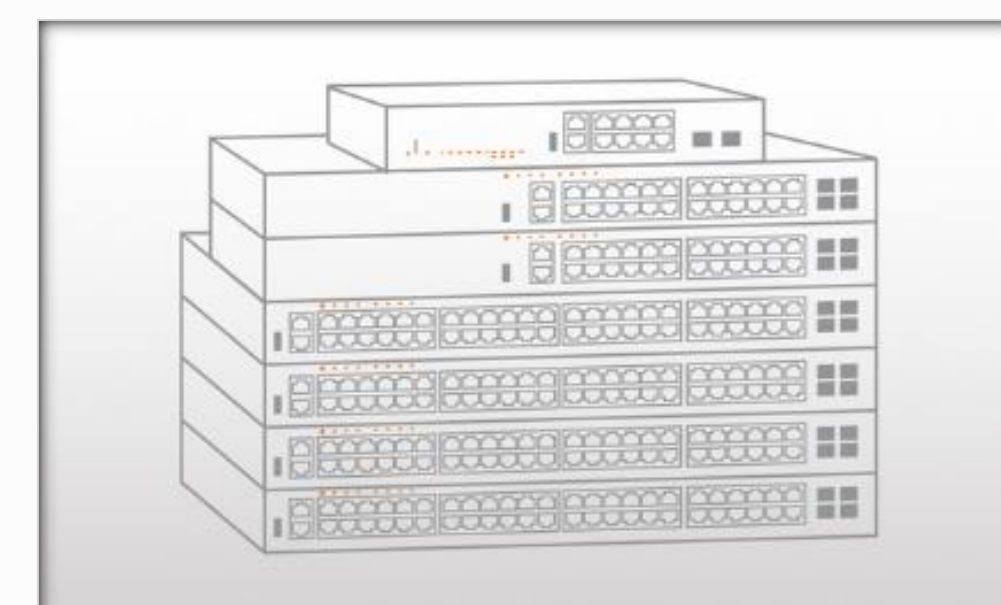
일반	라이선스 문서		장비 관리
HW 요구사항	네트워크 포트	장비 관리	장비 관리 방식
	디스크 용량		자동 등록
	샤시 이중화		일괄 등록
	전원 이중화		장비 구분
	네트워크 이중화1		새창 띄우기
	네트워크 이중화2		알람 등급 관리
이중화 및 장애 복구	디스크 이중화	알람 관리	알람명 수정
	웹 이중화		알람 다운로드
	DB 이중화		알람 설정 초기값 저장
	DB 자동 복구		실시간 알람 감시
	DB 관리	시간 알람 감시	필터 저장 기능
	보안 점검		가청 알람
	메뉴 구조		메모 기능
공통기능	복사 및 엑셀 출력	시간 장비 상태	SOP 기능
	수정 권한		실시간 장비 상태
	화면 필터		알람 카운트
	동시 접속자	알람 이력	알람 이력 조회
	계정 개수		날짜 지정 조회
	계정 정보		필터 저장 기능
	비밀번호 강제 변경		알람 관리
설정 > 사용자 관리	계정 화면	레이션 검증	작업 절차
	계정승인		듀얼 연동
	계정 등급		연동 중단
	비밀번호 초기화		
	비밀번호 수정		

Smarter, faster, more reliable networks for every campus and enterprise



Wireless Access Points

Experience seamless wireless connectivity with RUCKUS APs.



Ethernet Switches

Get the best of both worlds with our RUCKUS Ethernet Switches.



Edge Systems

RUCKUS edge systems offer a scalable and flexible approach to services delivery at the edge of the network.



Network Control Management

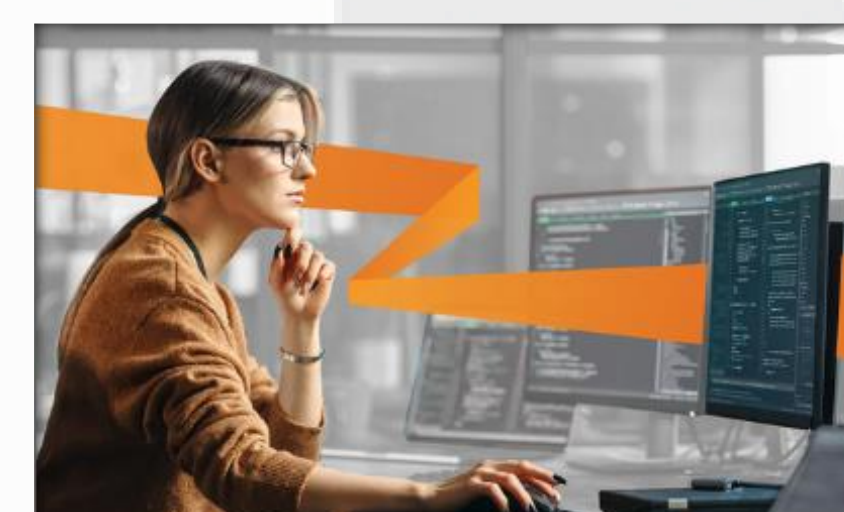
Streamline your network control & management systems with our cutting edge systems.



IoT Networking Systems

Cutting-edge IOT networking systems to help you stay ahead of the curve.

Networks that stay strong when everything around them doesn't



AI with RUCKUS

Build smarter networks with AI-driven solutions



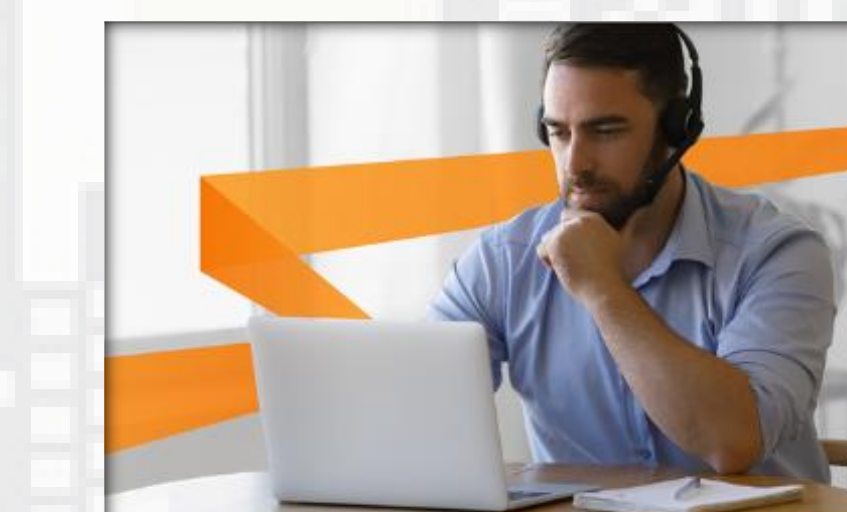
Security

Making networks more secure through innovation



Wi-Fi Innovations

Industry firsts in wireless connectivity



Quality of Service

Take the wireless user experience to the next level

Wi-Fi Innovations

Auto Cell Sizing | BeamFlex® | ChannelFly® | Wi-Fi 7 | Wi-Fi 6 and 6E

Don't just take our word for it. See the proof

50+

Industry awards

400+

Patents issued

172k+

customers

20k+

Partner network

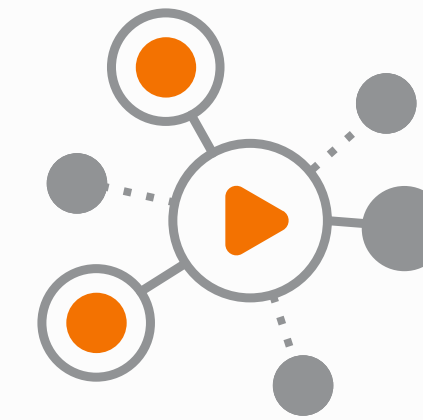
RUCKUS transforms connectivity across any industry





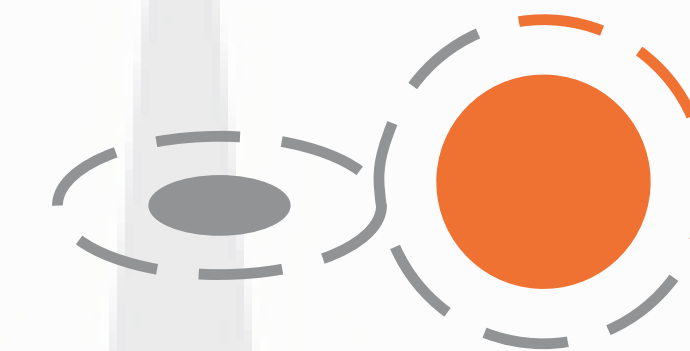
Wi-Fi 7

RUCKUS elevates the latest standard to new heights through our exclusive proprietary technology, which helps any Wi-Fi 7 deployment become the faster, most robust and secure wireless network ever.



ChannelFly

This patented channel management technology maximizes throughput by utilizing algorithms to assess all available RF channels in real-time, measure the real-world capacity, and then, direct Aps to the least congested channels automatically.



BeamFlex

More than beamforming, BeamFlex is a hardware base adaptive antenna system that physically changes signal patterns and polarization in real time to produce the strongest signal possible. Not dependent on specific clients, it mitigates interference, maximizes client performance and extends any Wi-Fi range and coverage.



Auto Cell Sizing

In environments where multiple Aps overlap, Auto Cell Sizing uses AP-to-AP communication to share information in real time and dynamically adjust their radio Tx power and Rx parameters (or cell size) to mitigate interference.



Auto Cell Sizing

Airtime decongestion allows Aps in ultra-high-density Wi-Fi environments to selectively respond to clients and limit management frame exchanges between Aps and clients. This proprietary feature dramatically increased overall network efficiency for higher airtime utilization.

Wi-Fi Innovations



The net generation in Wi-Fi® technology will take your network to the net level

Auto Cell Sizing | BeamFlex® | ChannelFly® | Wi-Fi 7 | Wi-Fi 6 and 6E

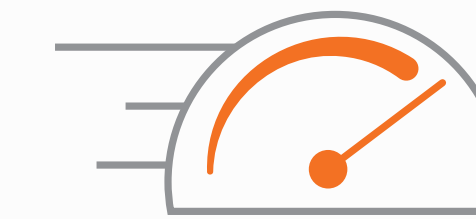
Benefits of Wi-Fi 7

The Wi-Fi Alliance® new IEEE 802.11be standard defines Wi-Fi 7 – and RUCKUS Networks defines a new level for your network. For enterprise, healthcare, education, large public venue and other environments, Wi-Fi 7 is your key to unlock a more efficient, secure and responsive network.

Wi-Fi 7's extreme speeds, low latency, and increased capacity delivers exceptional user experiences and empowers an entirely new class of advanced connected devices and demanding applications. Need a way to manage 8K video stream, extended reality (XR) video conferencing, massive social gaming, and more? Wi-Fi 7 is the answer you've been waiting for – and RUCKUS brings it to life.

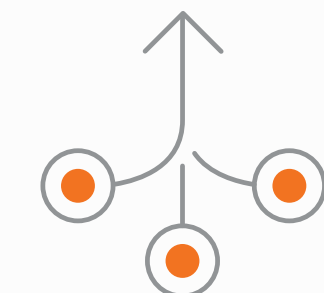
As the first to introduce an enterprise-class access point (AP) in the market and in the Wi-Fi Alliance test bed, RUCKUS is transforming the future of wireless networks. Our new Wi-Fi solutions dramatically increase throughput, reduce latency and improve connection reliability.

And we're just getting started.



Offers dramatically better throughput

RUCKUS Wi-Fi 7 solutions deliver massive Throughput boosts over Wi-Fi 6 thanks to its wider channels and greater 6 GHz capacity gains. The result? Peak rates is up to four times the throughput of Wi-Fi 6.



Provides wireless Link aggregation with MLO

Multi-link operation (MLO) uses multiple bands to simultaneously connect user devices and Aps. Aggregation these discrete links significantly increases throughput, reduces latency and improves connection reliability.



Conquers interference

Preamble puncturing enables a Wi-Fi 7 AP to transmit a "punctured" portion of a channel spectrum is being used by legacy users. This feature allows Wi-Fi 7 to support the 320 MHz wide channel – twice the maximum width of Wi-Fi 6 – without letting interference degrade performance.



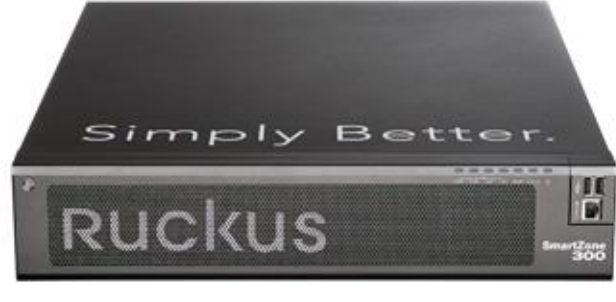
Supports demanding Low-latency applications

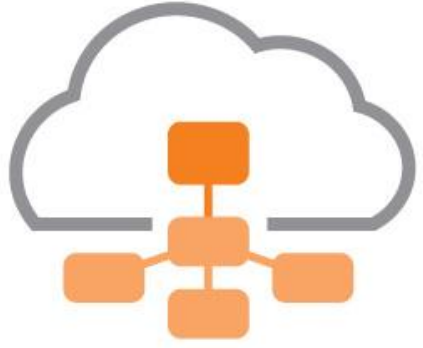
Deterministic latency is a critical need for advanced applications like augmented reality and virtual reality that can't tolerate high latency levels. Wi-Fi 7 enhancements allow our Wi-Fi 7 Aps to deliver much lower latency levels than Wi-Fi 6.

	R750	R730	R720	R710	R610	R510
						
Feature/Description	High-end 802.11ax 4x4 dual concurrent AP with MU-MIMO, BeamFlex+ and 2.5Gbps backhaul	High-end 802.11ax 8x8 dual concurrent AP with MU-MIMO, BeamFlex+ and 5Gbps backhaul	High-end 802.11ac Wave 2 dual-concurrent AP with MU-MIMO, BeamFlex+ and 2.5Gbps backhaul	High-end 802.11ac Wave 2 dual-concurrent AP with MU-MIMO and BeamFlex+	Mid-range 802.11ac Wave 2 dual-concurrent AP with MU-MIMO and BeamFlex+	Mid-range 802.11ac Wave 2 dual-concurrent AP with MU-MIMO and BeamFlex+
Maximum PHY rete	2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	4800 Mbps (5GHz) 1148 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	1300 Mbps (5GHz) 450 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)
Wi-Fi technology	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4 GHz, 5GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)
Concurrent users	1024	1024	512	512	512	512
Radio chains:streams	4x4:4	8x8:8	4x4:4	4x4:4 SU-MIMO 4X4:3 MU-MIMO	3x3:3	2x2:2
Antenna patterns (per band)	4,000+	4,000+	4,000+	4,000+	512	64
Antenna gain	Up to 3dbi	Up to 2dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi
PD-MRC	✓	✓	✓	✓	✓	✓
Rx sensitivity (2.4/5GHz)	-102dBm	-103/-101dBm	-104dBm	-104dBm	-100dBm	-103dBm
ChannelFly	✓	✓	✓	✓	✓	✓
SmartMesh	✓	✓	✓	✓	✓	✓
USB (IoT Ready)	✓	✓	✓	✓	✓	✓
Ethernet ports	1x1GbE 1x2.5GbE	1x ½.5/5Gbps 1x 10/100/1000Mbps	1 x 1GbE and 1x2.5GbE	2x1GbE	2 x 1GbE	2 x 1GbE
Integrated BLE/ZigBee	✓	✓	-	-	-	-
WLAN Control and Management	Zone Director SmartZone Unleashed Cloud Wi-Fi	ZoneDirector SmartZone Unleashed Cloud Wi-Fi	ZoneDirector SmartZone Unleashed Cloud Wi-Fi	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed

	R320	R310	H510	H320	C110	M510
						
Feature/Description	Entry level 802.11ac Wave 2 dual-concurrent AP with BeamFlex	Entry level 802.11ac Wave 1 dual-concurrent AP with BeamFlex	802.11ac Wave 2 dual-concurrent wall switch with five GbE ports and BeamFlex+	802.11ac Wave 2 dual-concurrent wall switch with two 10/100MbE ports and BeamFlex+	802.11ac Wave 2 dual-concurrent wall plate with built-in DOCSIS 3.0 cable modem	Mobile Indoor 802.11ac Wave 2 2x2:2 Wi-Fi AP with LTE backhaul
Maximum PHY rete	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 150 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)
Wi-Fi technology	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)
Concurrent users	256	100	100	100	100	512
Radio chains:streams	2x2:2	2x2:2	2x2:2	5GHz: 2x2:2 MU MIMO 2.4GHz: 1x1:1 SU-MIMO	2x2:2	2x2:2
Antenna patterns (per band)	64	64	4	4	4	64
Antenna gain	Up to 3dBi	Up to 3dBi	Up to 1dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi
PD-MRC	-	-	✓	✓	✓	✓
Rx sensitivity (2.4/5GHz)	-101dBm	-99dBm	-99/-96dBm	-99/-96dBm	-96/-95dBm	-101/-95dBm
ChannelFly	✓	✓	✓	✓	✓	✓
SmartMesh	-	-	✓	-	✓	✓ (in future release)
USB (IoT Ready)	-	-	✓	-	✓	✓
Ethernet ports	1x1GbE	1x1GbE	5x1GbE	2x10/100MbE 1x1GbE	2x10/100MbE	2x1GbE ports, RJ-45
Integrated BLE/ZigBee	-	-	-	-	-	-
WLAN Control and Management	ZoneDirector SmartZone Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Unleashed	SmartZone Unleashed

	T710 Series	T610 Series	T310 Series	T811-CM	E510	P300
						
Feature/Description	High-end 802.11ac Wave 2 dual concurrent AP with BeamFlex+	Mid-range 802.11ac Wave 2 dual concurrent AP with BeamFlex+	Entry-level 802.11ac Wave 2 outdoor AP series with integrated BeamFlex+ omni and sector antennas	Outdoor 4x4:4 2.4/5GHz 802.11ac Wave 2 Wi-Fi access point with DOCSIS 3.1 backhaul	Embedded 802.11ac Outdoor Wave 2 Wi-Fi AP with External BeamFlex+ Antennas	Point-to-Point / Multi-point bridge
Maximum PHY rete	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz)
Wi-Fi technology	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz)
Concurrent users	512	512	512	512	512	-
Radio chains:streams	4x4:4	4x4:4	2x2:2	4x4:4	2x2:2	2x2:2
Antenna patterns (per band)	4,000+	4,000+	64	4,000+	64	-
Antenna gain	Omni: Up to 3dBi Sector: Up to 8dBi	Omni: Up to 3dBi 120 Sector: Up to 8dBi	Omni: Up to 3dBi 120 Sector: Up to 9dBi 30 Sector: Up to 12dBi	Up to 3dBi	Up to 3dBi	-
PD-MRC	✓	✓	✓	✓	✓	✓
Rx sensitivity (2.4/5GHz)	-104/-104dBm	-104dBm	-101dBm	-98/-97dBm	-101dBm	-96dBm
ChannelFly	✓	✓	✓	✓	✓	✓
SmartMesh	✓	✓	✓	✓	✓	-
Ethernet interface	2x1GbE	2x1GbE	1x1GbE	1x1GbE	1x1GbE	1x1GbE
USB (IoT Ready)	-	✓	Models d, s, & n	✓	✓	-
Fiber interface	✓	-	-	✓	-	-
GPS	✓	-	-	✓	-	-
WLAN Control and Management	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	ZoneDirector SmartZone Cloud Wi-Fi Unleashed	SmartZone	ZoneDirector SmartZone Standalone Unleashed	Unleashed Multi-Site Manager

	Appliance Controller			Controller-Less	Cloud
					
Feature/Description	ZoneDirector 1200	SmartZone 100	SmartZone 300	Unleashed	Ruckus Cloud
Number of Aps supported	Up to 150	Up to 1,024 / 3,000 cluster	Up to 10,000 / 30,000 cluster	Up to 50	Virtually unlimited number of APs supported
Number of switches supported	-	Up to 200 / 600 per cluster	Up to 2,000 / 6,000 per cluster	-	-
Clients	Up to 4,000	Up to 25,000 / 60,000 cluster	Up to 100,000 / 450,000 per cluster	Up to 1,024	Clients per AP: refer to AP data sheet
Ethernet ports	2 Ethernet ports, auto MDX, autosensing 1GbE	1GE model: 4 GbE port	6x1GbE ports 4x10GbE ports	Refer to selected AP data sheet	N/A
Authentication support	802.1X, Local database, Active Directory, RADIUS, LDAP	802.1X, MAC address	802.1x, Local database, Active Directory, RADIUS, LDAP	802/1x, Local database, Active Directory, RADIUS, LDAPr	PSK, 802.1x, Active Directory, RADIUS, LDAP, SMS, social login, open
Guest networking/captive portal	✓	✓	✓	✓	✓
DHCP server	✓	External or Assigned	External or Assigned	✓	External or assigned
AP discovery and control	L2 / L3	L2 / L3	L2 / L3	L2	L2
SSID/WLAN support	256	2,048 / 2,048 cluster	6,144 per SZ-300	16	15/Venue
Management Interface	Web GUI, FlexMaster	Web GUI, CLI	Web GUI, CLI	Web GUI, CLI, Unleashed Multi-Site Manager	Web GUI
Remote Management	No	Yes	Yes	Yes	Yes
Management protocol(s)	SNMP v3	SNMP v3, RESTful JSON	SNMP v3, RESTfull JSON	SNMP v3	N/A
VLAN support	Dynamic VLANs	Dynamic VLANs	Dynamic VLANs	Yes	Dynamic VLANs
Data Plane	Tunneling or local breakout	Tunneling or local breakout	Tunneling or local breakout	Local breakout	Local breakout
Power supply	DC or AC	DC or AC	DC or AC	PoE	Aps powered using PoE or optional power supply
Fans	-	Redundant	Six redundant, field swappable fans in three sets	N/A	N/A
SKU/Part number	901-1205-XX00	1GE: PO1-S104-XX00 10GE: PO1-S124-XX)) AP Lic: L09-0001-SG00	901-S300-WW10/00	Refer to Unleashed data sheet for supported APs	Refer to Cloud Wi-fi data sheet for supported APs

	Virtual Controller	
		
Feature/Description	Virtual SmartZone-E	Virtual SmartZone-H
Number of Aps supported	1,024 / 3K with cluster	10K / 30K with cluster
Number of switches supported	Up to 200 / 600 with cluster	Up to 2,000 / 6,000 with cluster
Clients	25K / 60K per cluster	100K / 300K per cluster
Ethernet ports	1 vNIC	1 or 3 vNIC
Authentication support	802.1x, Local database, Active Directory, RADIUS, LDAP	802.1x, Local database, Active Directory, RADIUS, LDAP
Guest networking/captive portal	✓	✓
DHCP server	External or vSZ-D assigned	External or vSZ-D assigned
AP discovery and control	L2 / L3	L2 / L3
SSID/WLAN support	2,048	6,144
Management Interface	Web GUI, SCI	Web GUI, SCI
Remote Management	Yes	Yes
Management protocol(s)	SNMP v3	SNMP v3
VLAN support	Dynamic VLANs	Dynamic VLANs
Data Plane	Tunneling or local breakout	Tunneling or local breakout
Power supply	N/A	N/A
Fans	N/A	N/A
SKU/Part number	L09-VSCG-WW00	L09-VSCG-WW00

	Appliance Controller
	
Feature/Description	ZoneDirector 1200
Secured data plane tunneling	Enables forwarding of user data traffic through secure tunnels on Ruckus APs when managed by Virtual SmartZone controllers.
Multiple hypervisor support	Supports the most widely deployed VMware and KVM hypervisors.
NFV flexible architecture	Complete separation of Control+Management plane (vSZ) and data plane functions (SmartZone Data Plane) via separate VMs that support distributed and centralized deployments providing compelling architecture flexibility.
Works seamlessly with virtual smartZone	vSZ acts as the controller for Ruckus APs as well as SmartZone Data Plane providing seamless configuration and management capabilities.
Up to 10 SmartZone Data Planes per vSZ and up to 40 SmartZone Data Planes per cluster	The vSZ controller runs in Active/Active (3+1) mode for extremely high availability. Each SmartZone Data Plane runs as an independent virtual machine instance that is managed by the vSZ controller.
vSZ Zone affinity for SmartZone Data Plane	This feature enables Ruckus APs in a particular zone establish tunnels with the SmartZone Data Plane in that particular zone. Provides flexibility for distributed and managed services deployments where the SmartZone Data Planes can be co-located on-premise with Ruckus APs (vSZ Zones) on medium/large high density sites that need tunneling. With up to 40 SmartZone Data Planes per cluster, the SZ 3.5 release can potentially support a large number of such distributed deployments.
DHCP server and NAT	This feature enables a high scale DHCP Server on the SmartZone Data Plane. The DHCP Server is a high-scale server specifically designed and architected for Wi-Fi deployments that provide near-real time IP address assignment combined with NAT this provides tremendous value to the operator since it avoids mac-address scaling limits and high costs on the network infrastructure (switches).
Legal Intercept	This feature is useful from a Legal Intercept requirements perspective and enables the ability to mirror packets in both uplink and downlink directions for Wi-Fi clients that have a CALEA warrant.
Support for northbound tunnels L2oGRE	This feature enables SmartZone Data Plane to forward WiFi client traffic to a specified 3rd party WAG (Wireless Access Gateway) over L2oGRE protocol standard.
IPv6 support	Supports IPv6 addressing for the SmartZone Data Plane interfaces as well as support forwarding of IPv6 client traffic.
L3 Roaming(inter SmartZone Data Plane tunnels)	This feature enables L3 Roaming when traffic is tunneled to the SmartZone Data Plane. The feature relies on inter SmartZone Data Plane flexi-vpn tunnels that are dynamically created with minimal user intervention. L3 Roaming can be enabled based on VLANs or subnets.

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