

COMPANY INTRODUCTION

The logo for SMEC, featuring the letters 'SMEC' in a bold, blue, sans-serif font. The letter 'M' is stylized with a vertical blue gradient bar passing through its center.

2020

ICT Division

Solutions

- Wireless Communication
 - Power ICT
- Network Security
 - Digital Forensic
- Telecom Gateway



Wireless Communication

Nation-wide Area

Mission Critical Wireless Solution based on TETRA
- for Public Safety, Transportation and Industry

- Licensed Band Only
- Ultra Wide Coverage : ~ xx Km
- Data & Voice (PTT) Service



Metro Area

Private LTE / 5G Wireless Solution based on Multefire / U-LTE

- 5 GHz Unlicensed band Only
(w/o assist of LTE/5G licensed band)
- Inherits many LTE benefits such as mobility / security / QoS
- Wide Coverage : ~ x km
- Voice & Data Service
(Standalone / Interworks with carrier's LTE/5G)



IoT Area

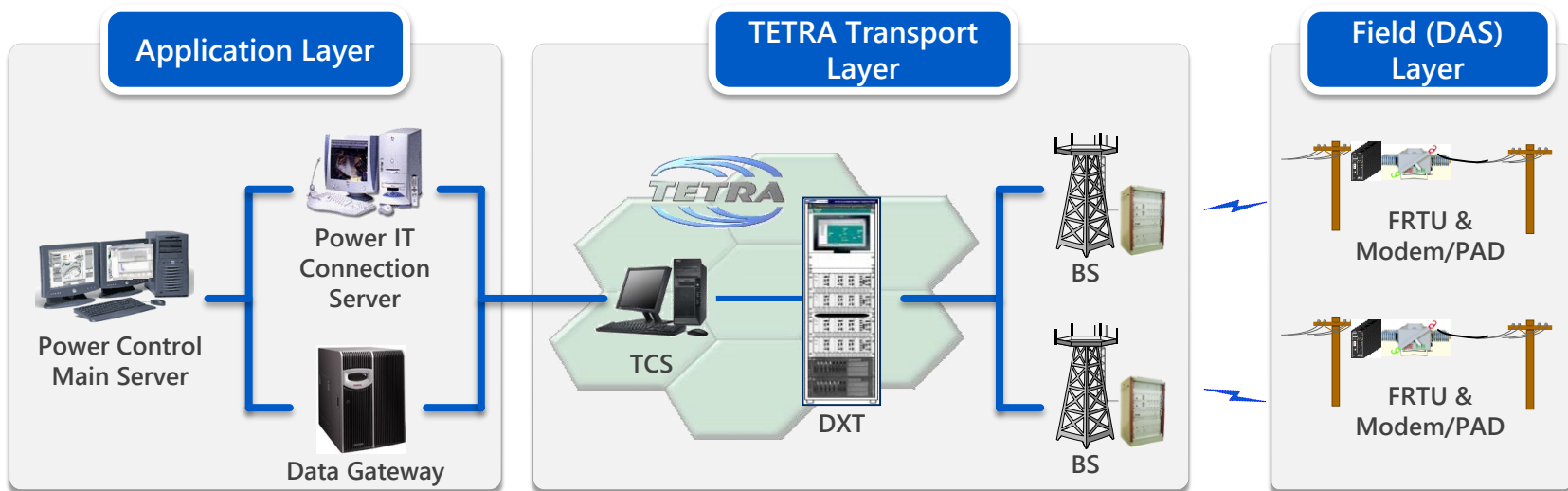
Wireless IoT Solution based on Lora / Wi-SUN

- Sub-GHz Unlicensed band
- Wide Coverage : ~ x km
- Purpose-Built Gateway & Edge Solution



Power ICT

■ DAS (Distributed Automation System) Overall Network using TETRA

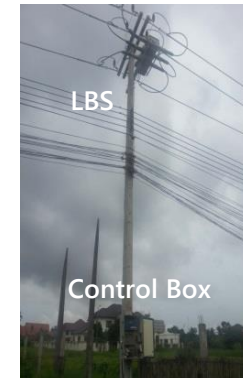
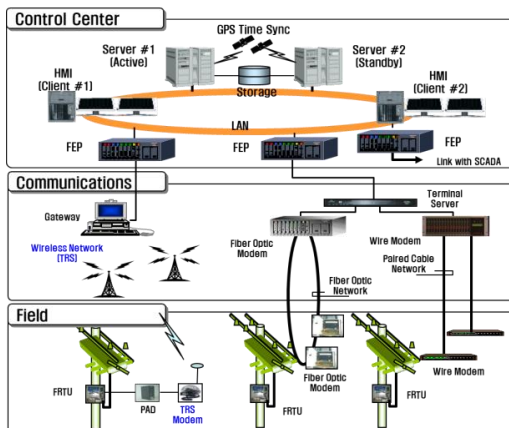


* TCS : TETRA Connectivity Server

* DXT : Digital Exchange for TETRA

* FRTU : Feeder Remote Terminal Unit

* PAD : Packet Assembly/Disassembly



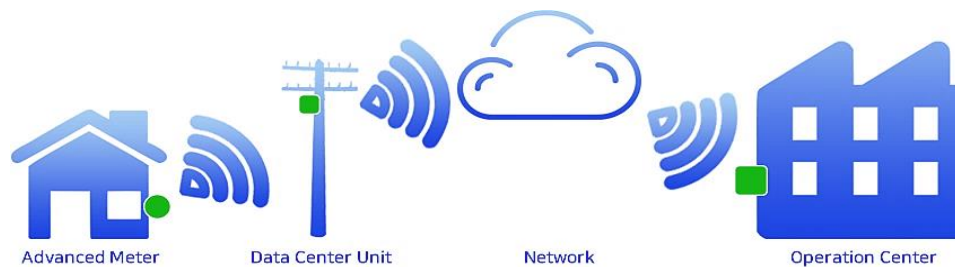
* LBS : Load Breaking Switch

Power ICT

Advanced Metering Infrastructure / Electricity Solutions

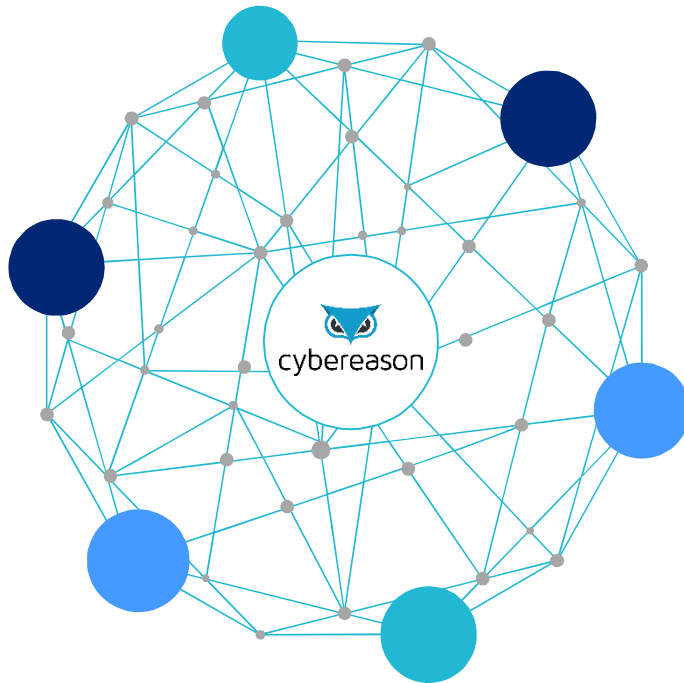


AMI Application



Network Security

| Cybereason EDR & NGAV Solution



Endpoint Security Analytics

Threat Hunting / Infinity

Endpoint Detection & Response

EDR / Mobile / Containers /
Threat Finder / Forensics /
Live Response

Endpoint Prevention

NGAV / Ransomware /
Fileless Malware /
Endpoint Controls

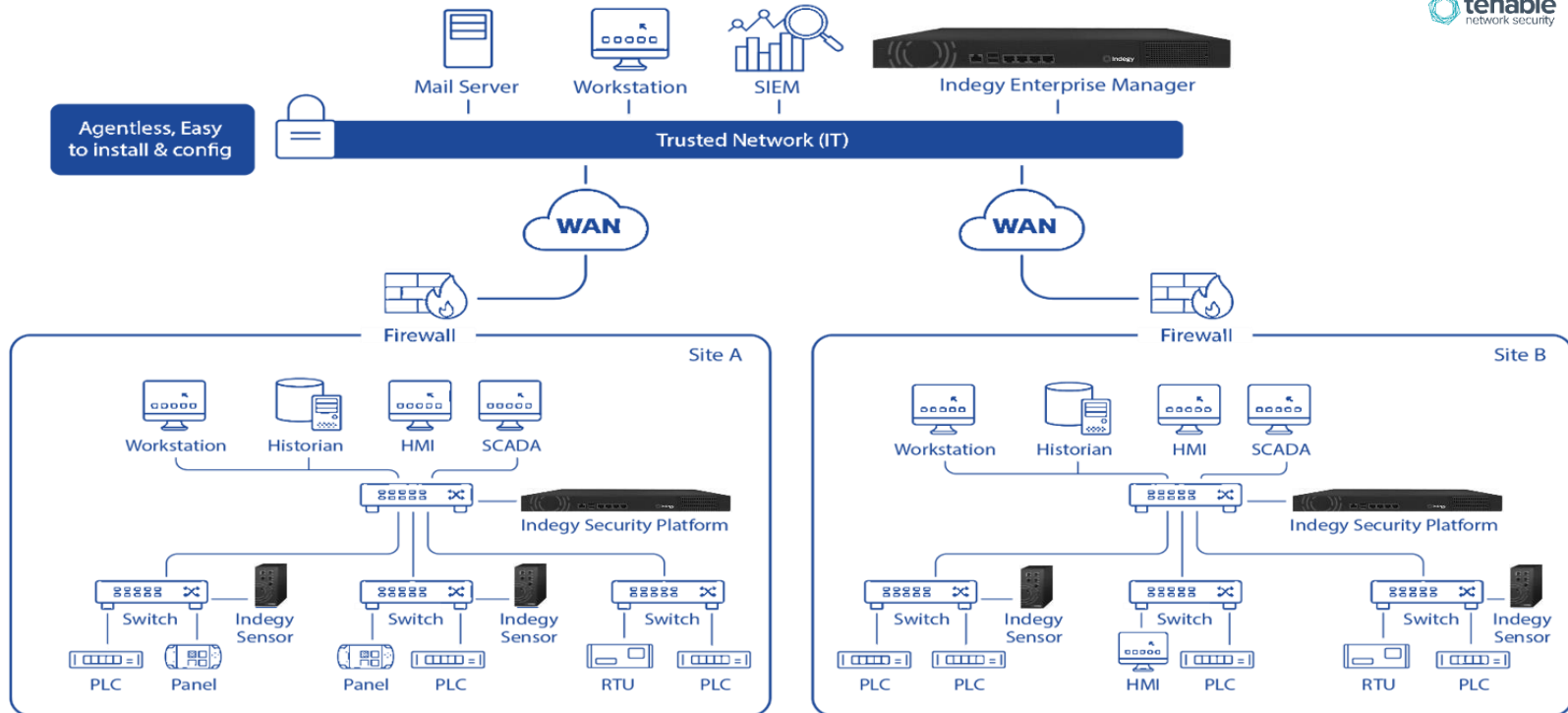
Managed Security Services

Incident Response / MDR /
Assessments

- **EDR & NGAV COMBINATION** provides complete protection against advanced threats
- **IMMEDIATE RESPONSE** through threat visibility and alarm function by real-time correlation analysis
- **MANAGEMENT CONVENIENCE** with Real-time blocking, Custom rules and Integration
- **HIGH STABILITY** through providing agent without crash (Window/Mac OS/Linux)

Network Security

Tenable.ot Industrial Cyber Security Solution



Asset Tracking- provide you with a comprehensive up-to-date inventory of all assets in your network including dormant devices.



Threat Detection & Mitigation- monitors for both cyber threats and operational mistakes. It generates alerts based on detection of behavioral anomalies as well as predefined policy conditions.



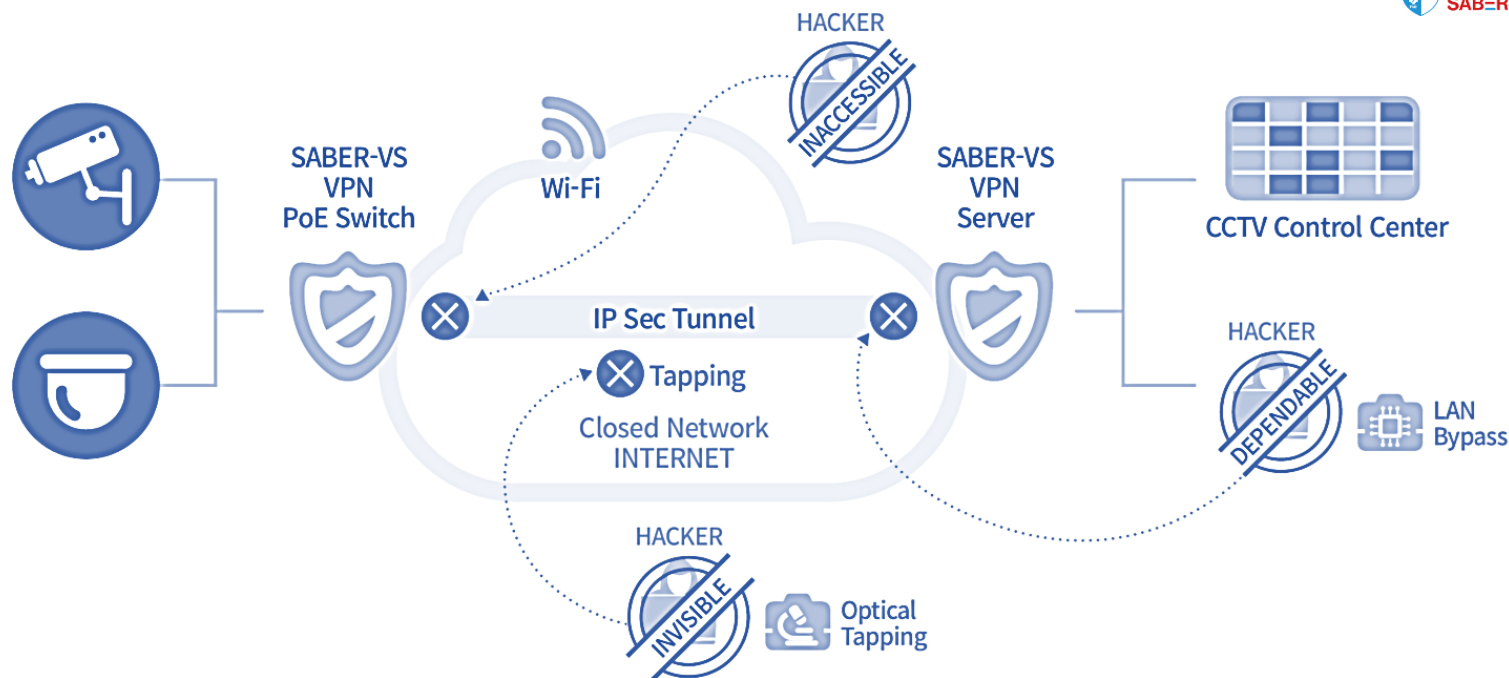
Vulnerability Management- receive periodic reports of risk levels for each of the assets in your ICS network. The reports enable you to dive deeply into the risk factors in the network and prioritize mitigation steps.



Configuration Control- tracks and logs all configuration changes, whether executed by a human user or by malware, over the network or physically on the device.

Network Security

SABER-VS Intelligent VPN System for CCTV security



CCTV Control Center

Integration of outdoor/indoor devices difficult to countermeasure immediately due to broad installation in distributed area



Real-time Streaming Service

Guarantee constant transmission of image data



24 hours Unmanned Service Device

Integration of unmanned service devices need to connect on the network such as ATM and KIOSK



Lossless Streaming Service

Original blocking of data loss during the transmission



Restricted Area

Integrated security management of remote unmanned devices installed strict restricted area (ex. Military unit)



Remote Power Management

Minimize the fault by providing remote reset function when there is fault

Digital Forensic

DSM Professional Mobile Forensics Solution

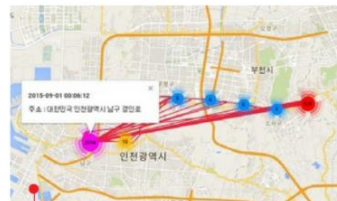
DSM
D.S.M FORENSIC



Automatic login screen is shown
when you select web data



Track suspect's movement path



Identifying the suspect's main
radius of activities through clustering



Incomparable Speed

Extract / analyze at an
Average speed of 40 minutes



Completeness of Data

Evidence collected always
Has the same hash value



Convenient Interface

Faster and more convenient
With intuitive interface



Broad recovery range

Support call log / multimedia
Information recovery



Optimized for various SNS

Compatible with the highest
number of SNS in the market

Telecom Gateway

I Voice & Video / Signaling Solutions

Trunk Gateway / IMS Media Gateway

provides media conversion functionality enabling voice traffic to utilize many different types of circuits and be transported across IP networks

Signaling Gateway / SS7 STP

relaying and routing signal messages between different networks
(ex. PSTN, IP, 2G/3G mobile and IMS networks)



I Packet Gateway Solution

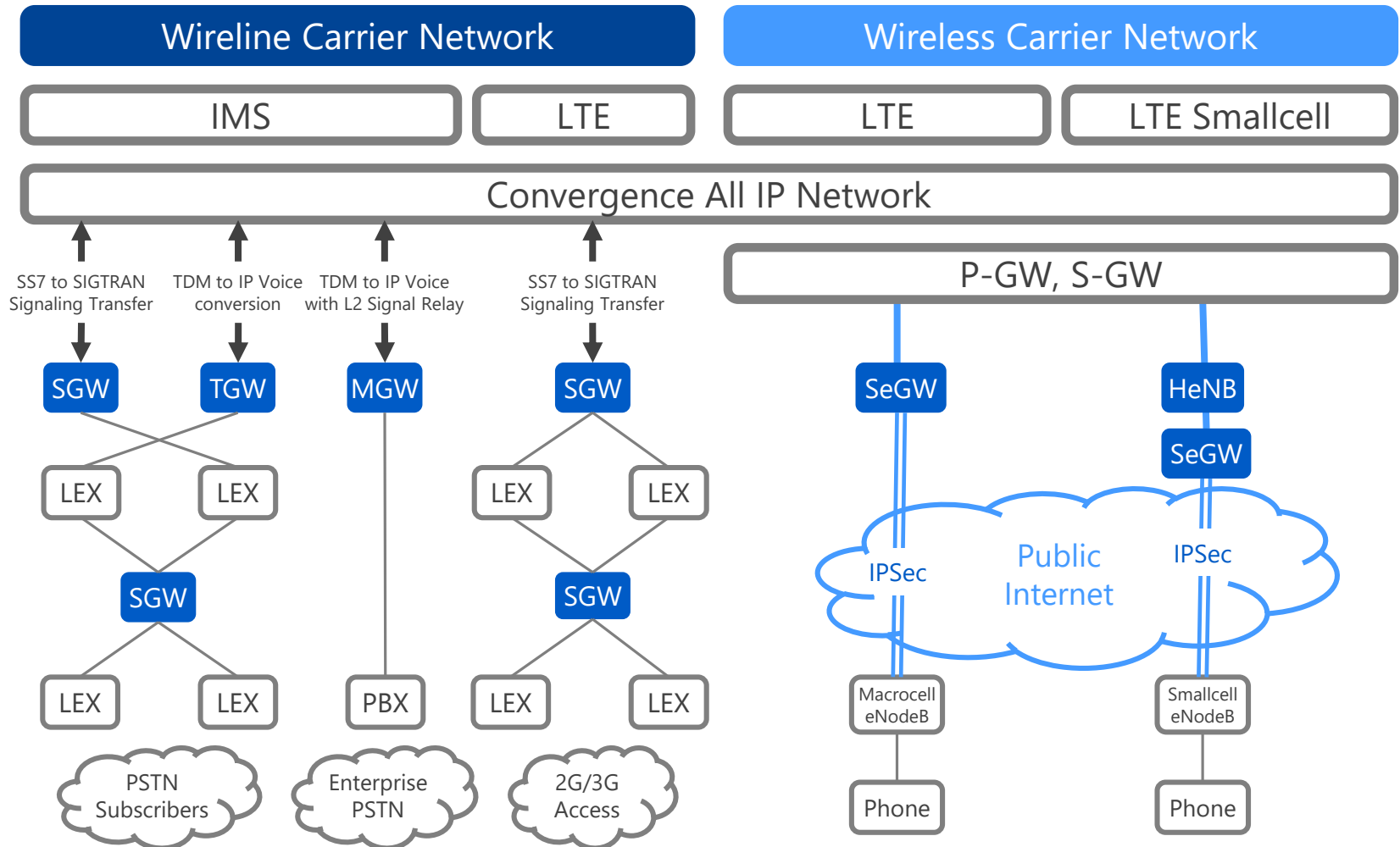
IPSec Gateway / LTE Smallcell Gateway

provides integrated IPSec security function and designed to handle the voice & message traffic from large scale small-cell deployments with purpose-built hardware and software



Telecom Gateway

Position in Telecom Network

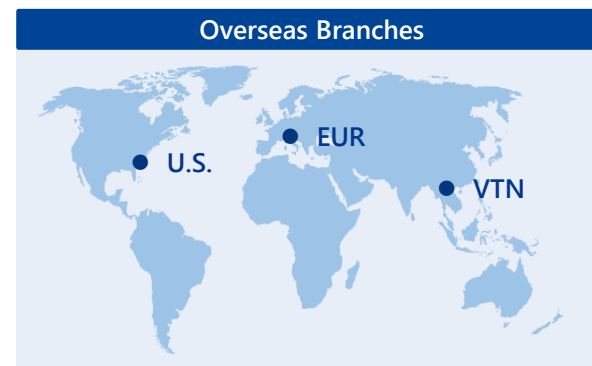


COMPANY OVERVIEW

Profile

Company Name		SMEC Co., Ltd.
CEO		Young Sup Choi
Capital		11.6M US\$
KOSDAQ Listed		2009
Established		March 1996
Main Business		ICT Business Machinery Business
Employees		200+ (2020)
Address	HQ Machinery	157-10, Goldenroot-ro, Juchon-myeon, Gimhae-si, Gyeongsangnam-do, South Korea
	ICT	23-12, Dongtansandan 9-gil, Hwaseong-si, Gyeonggi-do, South Korea
Website		www.esmec.com

Facilities



History

1989 ~ 2000

- 1989** • Commencement of Samsung Heavy Industry machine tool business
- 1996** • Newgrid established
- 1997** • Development of R2-No7. Interworking Gateway

2001 ~ 2009

- 2001** • 2G IWF Supply (KTF)
- 2004** • SG Supply (SKT, LGU+)
- 2005** • SG Supply (KT, KTF)
- 2006** • TG Supply (KT)
- IMS MG Supply (NEC, JP)
- 2008** • 3G VG Supply (KT)
- 2009** • **Listed in KOSDAQ**
- IMS SBC Supply (KT)

2011 ~

- 2011** • **SMEC Merged**
- Qualified ISO 9001:2008
- 2012** • LTE Femto GW Supply (LGU+)
- 2014** • LTE Femto GW Supply(CHT, TW)
- 2015** • D-TRS solution Supply (KEPCO)
- 2016** • T1 Wi-fi Controller Supply (KT)
- 2018** • Cybereason & Indegy Contract for B2X Security Business
- Qualified World Class 300 (R&D)
- 2019** • CC Certification Qualified for Smart VPN Switch
- Launched specialty solutions for Mobile Forensic

Awards

- World Class 300 Qualified
- Digital Innovation Grand Prize (Minister, Ministry of Science and ICT)
- TL9000 Quality Management System Qualified (No. T05-026)
- INNO-BIZ nominated (No. 5051-0342)
- CC security certification Qualified (2019)



Business Area

ICT







- Telecommunication
- Power ICT
- Network Security
- Digital Forensic



Machinery

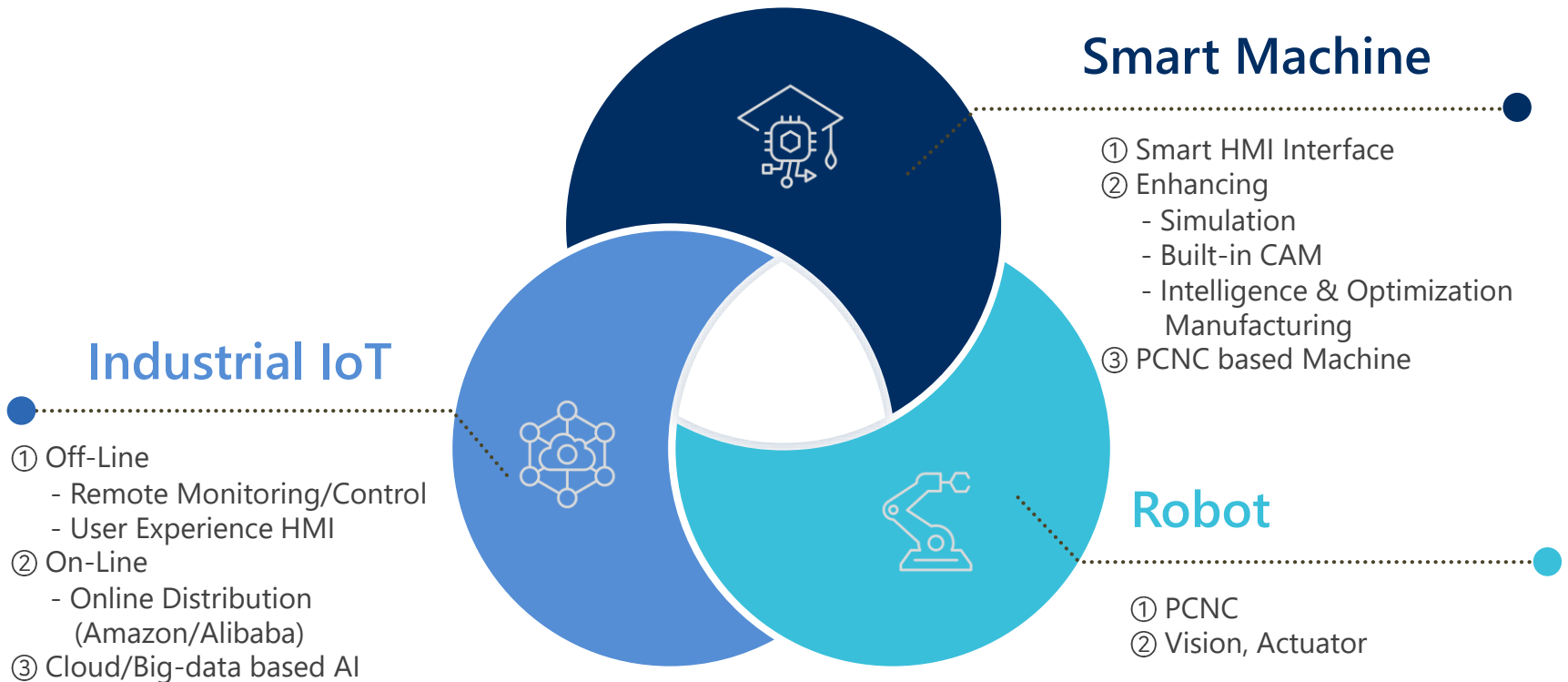
- Machining Center / CNC
- Robots
- Factory Automation

Machinery Business

Main Product  <ul style="list-style-type: none"> Machining Center / CNC Factory Automation 	Number of Employees  200 R&D Center: 40
Factory in Korea  <ul style="list-style-type: none"> Gimhae Factory (Machine Tools Business) Daegu Factory (FA Business) 	2018 Productivity  2,000 units / year
Production Capability  300 units / month	2018 Network  Overseas sales network In 48 countries



Robot / Factory Automation



Customers & Experiences

Customers & Partners

Customers










Partners








Experiences

I Gateway Solution

DOMESTIC

Customer	Project Title
	NGN(BcN) Truck G/W, Signaling G/W
	VoIP Commercial Project Media G/W
	WCDMA Core Network Signaling G/W
	Session Border Controller (SBC)
	WCDMA Data Network WTCP (NI)
	Signaling G/W, Trunk/Media G/W Partner
	Security Packet G/W, SBC Partner
	VoIP Backbone Network Signaling G/W
	CDMA Core Network Signaling G/W
	CDMA Core Network IGS-TG
	C4/C5 Media G/W
	LTE Femto GW
	WCDMA Core Network Signaling G/W
	C4/C5 Media G/W, NGN Signaling G/W
	Cable VoIP Project Media G/W
	MVNO Signaling G/W



OVERSEAS

Customer	Project Title
	LTE Femtocell Gateway
	LTE Smallcell Security Gateway
	WiMAX Signaling Gateway
	VoIP Project Media G/W
	VoIP Project Trunk G/W
	CDMA Project Signaling G/W
	Triple Play Service (TPS) Truck G/W
	Triple Play Service (TPS) Signaling G/W
	WiBro Signaling Gateway
	Triple Play Service (TPS) Signaling G/W







Experiences

I Radio Communication Systems : TETRA & AMI / Electricity

DOMESTIC

Customer	Project Title
	Digital TRS system Maintenance
	TETRA Connection Server
	TETRA Modem for DAS
	TETRA Base Station
	PLC Modem, 460,000 EAs (2016 ~2019) (KEPCO, nationwide)
 KCTC	B-CDMA Modem for DCU, 60,000 EAs (KEPCO, nationwide)

OVERSEAS





Customer	Project Title
 MONGOLIA	TETRA network for EIN system
 MOZAMBIQUE	TETRA network for EMIS Phase I
 INDONESIA	Basic design & Site survey for Digital TRS system for National Police in East and West Kalimantan
 RWANDA	The Project of Tax Tariff system Improvement
 QATAR	EMIRI Navy Base Radio Communication System
 LAOS	Digital Electricity Meter Procurement

Experiences

■ Cyber Security Solution

Customer	Project Title
 KNPA KOREAN NATIONAL POLICE AGENCY	Next-generation security control analysis system construction (Cybereason EDR)
 KOMIPO KOREA MIDLAND POWER CO.,LTD.	Purchase of Endpoint security system (Cybereason EDR)
 KCEN	Establishment of Endpoint cyber security platform (Cybereason EDR)
 SHINHAN FINANCIAL GROUP	Group terminal malicious code anomaly detection and response solution (Cybereason EDR)

■ Smart VPN Solution

Customer	Project Title
	KT Communication Branch Surveillance system Video Encryption
 Tongyeong	Tongyeong City Marine disaster prevention system
	Encrypted Network Switch for TETRA Base Station
 KONEPS Korea On-Line E-Procurement System	Surveillance System Video Encryption for <ul style="list-style-type: none"> - Daegu Metropolitan Office of Education - Hanbom High School



MAKE SMART WORLD

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